



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for December 2017

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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	308,422	--	--	241,246	3,141	-29,651	535,505	46,955	0	1,083,956
Hydrocarbon Gas Liquids	122,026	-663	10,579	7,128	--	-26,506	23,254	47,941	94,381	190,904
Natural Gas Liquids	122,026	-663	1,202	6,188	--	-26,730	23,254	47,941	84,288	184,824
Ethane	47,372	--	185	--	--	-3,350	--	7,261	43,646	55,619
Propane	39,684	--	10,270	5,146	--	-6,889	--	31,014	30,975	62,347
Normal Butane	10,047	--	-8,524	732	--	-14,331	10,263	5,387	936	38,321
Isobutane	11,180	--	-729	306	--	-969	6,803	15	4,908	8,393
Natural Gasoline	13,743	-663	--	4	--	-1,191	6,188	4,264	3,823	20,144
Refinery Olefins	--	--	9,377	940	--	224	--	--	10,093	6,080
Ethylene	--	--	38	--	--	0	--	--	38	0
Propylene	--	--	9,626	701	--	-184	--	--	10,511	4,842
Butylene	--	--	-310	239	--	429	--	--	-500	1,208
Isobutylene	--	--	23	--	--	-21	--	--	44	30
Other Liquids	--	38,834	--	35,461	-1,082	11,620	44,403	20,611	-3,421	328,455
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	38,838	--	1,101	3,820	353	37,005	6,402	0	30,072
Hydrogen	--	--	--	--	7,233	--	7,233	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,514	--	294	-773	-202	--	2,237	0	1,446
Renewable Fuels (including Fuel Ethanol)	--	36,324	--	803	-2,660	553	29,749	4,165	0	28,579
Fuel Ethanol ⁵	--	32,809	--	--	-406	185	28,088	4,130	0	23,048
Renewable Fuels Except Fuel Ethanol	--	3,515	--	803	-2,254	368	1,661	35	0	5,531
Other Hydrocarbons	--	--	--	4	21	2	23	--	0	47
Unfinished Oils	--	--	--	22,041	--	158	13,176	12,126	-3,419	86,260
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	12,319	-4,902	11,107	-5,778	2,084	0	212,108
Reformulated	--	--	--	5,245	7,532	4,674	8,093	10	0	53,455
Conventional	--	-4	--	7,074	-12,435	6,433	-13,871	2,073	0	158,653
Aviation Gasoline Blend. Comp.	--	--	--	--	--	2	0	--	-2	15
Finished Petroleum Products	--	142	627,375	24,107	7,596	16,986	--	110,655	531,579	291,637
Finished Motor Gasoline	--	142	312,498	1,000	5,309	1,046	--	32,823	285,080	24,641
Reformulated	--	--	101,072	--	-8,377	-7	--	--	92,702	40
Conventional	--	142	211,426	1,000	13,686	1,053	--	32,823	192,378	24,601
Finished Aviation Gasoline	--	--	472	35	--	122	--	--	385	1,041
Kerosene-Type Jet Fuel	--	--	55,297	4,668	--	141	--	5,405	54,419	41,218
Kerosene	--	--	595	--	--	425	--	143	27	2,138
Distillate Fuel Oil ⁵	--	--	167,714	8,748	2,287	12,874	--	43,928	121,947	145,574
15 ppm sulfur and under	--	--	156,541	5,586	2,287	11,848	--	38,421	114,145	127,891
Greater than 15 ppm to 500 ppm sulfur	--	--	3,688	331	--	712	--	3,120	187	7,569
Greater than 500 ppm sulfur	--	--	7,485	2,831	--	314	--	2,387	7,615	10,114
Residual Fuel Oil ⁶	--	--	11,547	5,808	--	-2,393	--	7,679	12,069	29,359
Less than 0.31 percent sulfur	--	--	1,312	326	--	-437	--	NA	NA	2,148
0.31 to 1.00 percent sulfur	--	--	1,914	260	--	18	--	NA	NA	6,601
Greater than 1.00 percent sulfur	--	--	8,321	5,222	--	-1,974	--	NA	NA	20,604
Petrochemical Feedstocks	--	--	9,603	541	--	-175	--	--	10,319	2,901
Naphtha for Petro. Feed. Use	--	--	6,404	451	--	-98	--	--	6,953	1,849
Other Oils for Petro. Feed. Use	--	--	3,199	90	--	-77	--	--	3,366	1,052
Special Naphthas	--	--	1,231	548	--	86	--	--	1,693	1,192
Lubricants	--	--	6,027	1,237	--	1,332	--	3,090	2,842	12,021
Waxes	--	--	117	110	--	125	--	97	5	857
Petroleum Coke	--	--	28,556	330	--	608	--	16,785	11,493	8,519
Marketable	--	--	21,053	330	--	608	--	16,785	3,990	8,519
Catalyst	--	--	7,503	--	--	--	--	--	7,503	--
Asphalt and Road Oil	--	--	9,136	1,079	--	2,778	--	677	6,760	21,506
Still Gas	--	--	21,474	--	--	--	--	--	21,474	--
Miscellaneous Products	--	--	3,108	3	--	17	--	26	3,068	670
Total	430,448	38,313	637,954	307,942	9,655	-27,551	603,162	226,162	622,539	1,894,952

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	3,401,627	--	--	2,887,788	79,722	-95,458	6,056,606	407,989	0	1,083,956
Hydrocarbon Gas Liquids	1,363,733	-7,902	229,384	69,258	--	-9,244	206,472	509,419	947,826	190,904
Natural Gas Liquids	1,363,733	-7,902	126,989	58,715	--	-5,979	206,472	509,419	831,623	184,824
Ethane	513,290	--	1,932	--	--	4,932	--	65,901	444,389	55,619
Propane	445,544	--	111,681	46,881	--	-14,773	--	330,158	288,721	62,347
Normal Butane	112,879	--	15,725	5,572	--	8,482	64,620	49,515	11,559	38,321
Isobutane	127,916	--	-2,349	3,522	--	268	77,375	1,373	50,073	8,393
Natural Gasoline	164,104	-7,902	--	2,740	--	-4,888	64,477	62,471	36,882	20,144
Refinery Olefins	--	--	102,395	10,543	--	-3,265	--	--	116,203	6,080
Ethylene	--	--	270	--	--	0	--	--	270	0
Propylene	--	--	104,210	8,110	--	-2,134	--	--	114,454	4,842
Butylene	--	--	-2,371	2,433	--	-1,161	--	--	1,223	1,208
Isobutylene	--	--	286	--	--	30	--	--	256	30
Other Liquids	--	441,484	--	470,372	26,875	10,349	747,189	182,763	-1,569	328,455
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	441,533	--	20,001	40,151	1,670	439,968	60,047	0	30,072
Hydrogen	--	--	--	--	81,161	--	81,161	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,360	--	3,841	-4,916	-31	318	24,998	0	1,446
Renewable Fuels (including Fuel Ethanol)	--	415,173	--	15,927	-36,281	1,671	358,099	35,049	0	28,579
Fuel Ethanol ⁵	--	377,260	--	1,824	-7,675	3,517	335,061	32,831	0	23,048
Renewable Fuels Except Fuel Ethanol	--	37,913	--	14,103	-28,606	-1,846	23,038	2,218	0	5,531
Other Hydrocarbons	--	--	--	233	187	30	390	--	0	47
Unfinished Oils	--	--	--	229,843	--	5,678	130,109	95,551	-1,495	86,260
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-49	--	220,528	-13,276	2,995	177,044	27,164	0	212,108
Reformulated	--	-1	--	76,948	64,839	1,306	140,381	99	0	53,455
Conventional	--	-48	--	143,580	-78,115	1,689	36,663	27,065	0	158,653
Aviation Gasoline Blend. Comp.	--	--	--	--	--	6	68	--	-74	15
Finished Petroleum Products	--	1,337	7,184,069	249,896	50,575	-38,034	--	1,215,049	6,308,862	291,637
Finished Motor Gasoline	--	1,337	3,635,882	11,724	20,950	-3,969	--	272,554	3,401,309	24,641
Reformulated	--	--	1,187,218	--	-59,908	-7	--	--	1,127,317	40
Conventional	--	1,337	2,448,664	11,724	80,859	-3,962	--	272,554	2,273,992	24,601
Finished Aviation Gasoline	--	--	4,033	134	--	47	--	--	4,120	1,041
Kerosene-Type Jet Fuel	--	--	621,307	58,797	--	-1,558	--	67,872	613,790	41,218
Kerosene	--	--	2,606	1,167	--	-123	--	2,262	1,634	2,138
Distillate Fuel Oil ⁵	--	--	1,836,194	54,213	29,624	-19,882	--	502,601	1,437,312	145,574
15 ppm sulfur and under	--	--	1,714,028	36,250	29,624	-15,129	--	425,944	1,369,087	127,891
Greater than 15 ppm to 500 ppm sulfur	--	--	42,167	759	--	-1,253	--	42,343	1,836	7,569
Greater than 500 ppm sulfur	--	--	79,999	17,204	--	-3,500	--	34,313	66,390	10,114
Residual Fuel Oil ⁶	--	--	156,698	68,588	--	-12,184	--	106,581	130,889	29,359
Less than 0.31 percent sulfur	--	--	19,457	4,112	--	-1,323	--	NA	NA	2,148
0.31 to 1.00 percent sulfur	--	--	19,616	7,295	--	-2,471	--	NA	NA	6,601
Greater than 1.00 percent sulfur	--	--	117,625	57,181	--	-8,390	--	NA	NA	20,604
Petrochemical Feedstocks	--	--	112,190	15,695	--	-339	--	--	128,224	2,901
Naphtha for Petro. Feed. Use	--	--	71,602	11,372	--	-162	--	--	83,136	1,849
Other Oils for Petro. Feed. Use	--	--	40,588	4,323	--	-177	--	--	45,088	1,052
Special Naphthas	--	--	13,688	5,379	--	-26	--	--	19,093	1,192
Lubricants	--	--	64,948	14,985	--	-354	--	40,540	39,747	12,021
Waxes	--	--	1,757	1,751	--	186	--	1,477	1,845	857
Petroleum Coke	--	--	329,003	3,494	--	1,536	--	213,848	117,113	8,519
Marketable	--	--	245,167	3,494	--	1,536	--	213,848	33,277	8,519
Catalyst	--	--	83,836	--	--	--	--	--	83,836	--
Asphalt and Road Oil	--	--	120,395	13,905	--	-1,360	--	6,921	128,739	21,506
Still Gas	--	--	250,818	--	--	--	--	--	250,818	--
Miscellaneous Products	--	--	34,550	64	--	-8	--	394	34,228	670
Total	4,765,360	434,919	7,413,453	3,677,314	157,172	-132,387	7,010,267	2,315,219	7,255,119	1,894,952

-- = Not Applicable.

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¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	9,949	--	--	7,782	101	-956	17,274	1,515	0
Hydrocarbon Gas Liquids	3,936	-21	341	230	--	-855	750	1,546	3,045
Natural Gas Liquids	3,936	-21	39	200	--	-862	750	1,546	2,719
Ethane	1,528	--	6	--	--	-108	--	234	1,408
Propane	1,280	--	331	166	--	-222	--	1,000	999
Normal Butane	324	--	-275	24	--	-462	331	174	30
Isobutane	361	--	-24	10	--	-31	219	0	158
Natural Gasoline	443	-21	--	0	--	-38	200	138	123
Refinery Olefins	--	--	302	30	--	7	--	--	326
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	311	23	--	-6	--	--	339
Butylene	--	--	-10	8	--	14	--	--	-16
Isobutylene	--	--	1	--	--	-1	--	--	1
Other Liquids	--	1,253	--	1,144	-35	375	1,432	665	-110
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,253	--	36	123	11	1,194	207	0
Hydrogen	--	--	--	--	233	--	233	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	9	-25	-7	--	72	0
Renewable Fuels (including Fuel Ethanol)	--	1,172	--	26	-86	18	960	134	0
Fuel Ethanol ⁵	--	1,058	--	--	-13	6	906	133	0
Renewable Fuels Except Fuel Ethanol	--	113	--	26	-73	12	54	1	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	711	--	5	425	391	-110
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	397	-158	358	-186	67	0
Reformulated	--	--	--	169	243	151	261	0	0
Conventional	--	0	--	228	-401	208	-447	67	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	5	20,238	778	245	548	--	3,570	17,148
Finished Motor Gasoline	--	5	10,081	32	171	34	--	1,059	9,196
Reformulated	--	--	3,260	--	-270	0	--	--	2,990
Conventional	--	5	6,820	32	441	34	--	1,059	6,206
Finished Aviation Gasoline	--	--	15	1	--	4	--	--	12
Kerosene-Type Jet Fuel	--	--	1,784	151	--	5	--	174	1,755
Kerosene	--	--	19	--	--	14	--	5	1
Distillate Fuel Oil ⁵	--	--	5,410	282	74	415	--	1,417	3,934
15 ppm sulfur and under	--	--	5,050	180	74	382	--	1,239	3,682
Greater than 15 ppm to 500 ppm sulfur	--	--	119	11	--	23	--	101	6
Greater than 500 ppm sulfur	--	--	241	91	--	10	--	77	246
Residual Fuel Oil ⁶	--	--	372	187	--	-77	--	248	389
Less than 0.31 percent sulfur	--	--	42	11	--	-14	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	62	8	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	268	168	--	-64	--	NA	NA
Petrochemical Feedstocks	--	--	310	17	--	-6	--	--	333
Naphtha for Petro. Feed. Use	--	--	207	15	--	-3	--	--	224
Other Oils for Petro. Feed. Use	--	--	103	3	--	-2	--	--	109
Special Naphthas	--	--	40	18	--	3	--	--	55
Lubricants	--	--	194	40	--	43	--	100	92
Waxes	--	--	4	4	--	4	--	3	0
Petroleum Coke	--	--	921	11	--	20	--	541	371
Marketable	--	--	679	11	--	20	--	541	129
Catalyst	--	--	242	--	--	--	--	--	242
Asphalt and Road Oil	--	--	295	35	--	90	--	22	218
Still Gas	--	--	693	--	--	--	--	--	693
Miscellaneous Products	--	--	100	0	--	1	--	1	99
Total	13,885	1,236	20,579	9,934	311	-889	19,457	7,296	20,082

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	9,320	--	--	7,912	218	-262	16,593	1,118	0
Hydrocarbon Gas Liquids	3,736	-22	628	190	--	-25	566	1,396	2,597
Natural Gas Liquids	3,736	-22	348	161	--	-16	566	1,396	2,278
Ethane	1,406	--	--	--	--	14	--	181	1,218
Propane	1,221	--	306	128	--	-40	--	905	791
Normal Butane	309	--	43	15	--	23	177	136	32
Isobutane	350	--	-382	10	--	1	212	4	137
Natural Gasoline	450	-22	--	8	--	-13	177	171	101
Refinery Olefins	--	--	281	29	--	-9	--	--	318
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	286	22	--	-6	--	--	314
Butylene	--	--	-6	7	--	-3	--	--	3
Isobutylene	--	--	575	--	--	0	--	--	1
Other Liquids	--	1,210	--	1,289	74	28	2,047	501	-4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,210	--	55	110	5	1,205	165	0
Hydrogen	--	--	--	--	222	--	222	--	0
Oxygenates (excluding Fuel Ethanol)	--	72	--	11	-13	0	1	68	0
Renewable Fuels (including Fuel Ethanol)	--	1,137	--	44	-99	5	981	96	0
Fuel Ethanol ⁵	--	1,034	--	5	-21	10	918	90	0
Renewable Fuels Except Fuel Ethanol	--	104	--	39	-78	-5	63	6	0
Other Hydrocarbons	--	--	--	1	1	0	1	--	0
Unfinished Oils	--	--	--	630	--	16	356	262	-4
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	604	-36	8	485	74	0
Reformulated	--	0	--	211	178	4	385	0	0
Conventional	--	0	--	393	-214	5	100	74	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	19,682	685	139	-104	--	3,329	17,285
Finished Motor Gasoline	--	4	9,961	32	57	-11	--	747	9,319
Reformulated	--	--	3,253	--	-164	0	--	--	3,089
Conventional	--	4	6,709	32	222	-11	--	747	6,230
Finished Aviation Gasoline	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,702	161	--	-4	--	186	1,682
Kerosene	--	--	7	3	--	0	--	6	4
Distillate Fuel Oil ⁵	--	--	5,031	149	81	-54	--	1,377	3,938
15 ppm sulfur and under	--	--	4,696	99	81	-41	--	1,167	3,751
Greater than 15 ppm to 500 ppm sulfur	--	--	116	2	--	-3	--	116	5
Greater than 500 ppm sulfur	--	--	219	47	--	-10	--	94	182
Residual Fuel Oil ⁶	--	--	429	188	--	-33	--	292	359
Less than 0.31 percent sulfur	--	--	53	11	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	54	20	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	322	157	--	-23	--	NA	NA
Petrochemical Feedstocks	--	--	307	43	--	-1	--	--	351
Naphtha for Petro. Feed. Use	--	--	196	31	--	0	--	--	228
Other Oils for Petro. Feed. Use	--	--	111	12	--	0	--	--	124
Special Naphthas	--	--	38	15	--	0	--	--	52
Lubricants	--	--	178	41	--	-1	--	111	109
Waxes	--	--	5	5	--	1	--	4	5
Petroleum Coke	--	--	901	10	--	4	--	586	321
Marketable	--	--	672	10	--	4	--	586	91
Catalyst	--	--	230	--	--	--	--	--	230
Asphalt and Road Oil	--	--	330	38	--	-4	--	19	353
Still Gas	--	--	687	--	--	--	--	--	687
Miscellaneous Products	--	--	95	0	--	0	--	1	94
Total	13,056	1,192	20,311	10,075	431	-363	19,206	6,343	19,877

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,743	--	--	25,697	5,370	239	-1,537	34,587	--	0	11,479
Hydrocarbon Gas Liquids	14,660	-17	369	1,852	533	--	-1,427	1,643	2,919	14,262	8,477
Natural Gas Liquids	14,660	-17	-123	1,550	365	--	-1,480	1,643	2,919	13,353	8,145
Ethane	6,414	--	--	--	--	--	46	--	1,050	312	454
Propane	4,775	--	732	1,488	4,541	--	-1,004	--	1,756	10,784	5,845
Normal Butane	1,412	--	-796	34	763	--	-485	1,028	19	851	1,350
Isobutane	713	--	-59	28	77	--	13	422	0	324	176
Natural Gasoline	1,346	-17	--	--	-10	--	-50	193	95	1,081	320
Refinery Olefins	--	--	492	302	--	--	53	--	--	909	332
Ethylene	--	--	30	--	--	--	--	--	--	30	--
Propylene	--	--	465	302	--	--	10	--	--	925	154
Butylene	--	--	-55	--	--	--	64	--	--	-119	148
Isobutylene	--	--	52	--	--	--	-21	--	--	73	30
Other Liquids	--	1,083	--	13,628	60,701	5,699	727	81,041	120	-778	69,128
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	1,086	--	445	10,187	-1,024	-57	10,654	97	0	8,810
Hydrogen	--	--	--	--	--	108	--	108	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,086	--	445	10,187	-1,133	-57	10,546	96	0	8,810
Fuel Ethanol	--	887	--	--	9,733	-597	-331	10,267	87	0	7,014
Renewable Fuels Except Fuel Ethanol	--	199	--	445	454	-536	274	279	9	0	1,796
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,788	--	--	-22	2,568	20	-778	5,213
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	11,395	50,514	6,722	806	67,819	3	0	55,105
Reformulated	--	--	--	5,183	8,460	3,701	763	16,581	0	0	19,863
Conventional	--	-3	--	6,212	42,054	3,021	43	51,238	3	0	35,242
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	118,430	12,836	51,735	-5,500	4,269	--	2,469	170,764	83,079
Finished Motor Gasoline	--	--	99,169	973	6,599	-6,126	1,097	--	83	99,435	5,505
Reformulated	--	--	41,097	--	--	-4,162	-6	--	--	36,941	24
Conventional	--	--	58,072	973	6,599	-1,964	1,103	--	83	62,494	5,481
Finished Aviation Gasoline	--	--	--	30	1,229	--	31	--	--	1,228	175
Kerosene-Type Jet Fuel	--	--	3,190	2,363	14,298	--	1,228	--	17	18,606	9,509
Kerosene	--	--	175	--	128	--	353	--	1	-51	1,798
Distillate Fuel Oil ⁶	--	--	10,565	7,272	27,310	626	948	--	500	44,325	52,677
15 ppm sulfur and under	--	--	9,092	5,234	25,152	626	728	--	359	39,017	43,858
Greater than 15 ppm to 500 ppm sulfur	--	--	-244	331	237	--	127	--	140	57	4,592
Greater than 500 ppm sulfur	--	--	1,717	1,707	1,921	--	93	--	--	5,252	4,227
Residual Fuel Oil ⁷	--	--	1,369	1,683	99	--	12	--	647	2,492	7,304
Less than 0.31 percent sulfur	--	--	162	--	--	--	-97	--	NA	NA	1,190
0.31 to 1.00 percent sulfur	--	--	564	--	--	--	-55	--	NA	NA	1,426
Greater than 1.00 percent sulfur	--	--	643	1,683	99	--	164	--	NA	NA	4,688
Petrochemical Feedstocks	--	--	108	4	-38	--	-10	--	--	84	98
Naphtha for Petro. Feed. Use	--	--	108	4	--	--	-10	--	--	122	98
Other Oils for Petro. Feed. Use	--	--	--	--	-38	--	--	--	--	-38	--
Special Naphthas	--	--	19	--	--	--	-1	--	--	20	47
Lubricants	--	--	423	114	324	--	14	--	253	594	1,062
Waxes	--	--	-19	27	--	--	49	--	61	-102	527
Petroleum Coke	--	--	1,095	--	781	--	--	--	836	1,040	--
Marketable	--	--	354	--	781	--	--	--	836	299	--
Catalyst	--	--	741	--	--	--	--	--	--	741	--
Asphalt and Road Oil	--	--	989	370	1,005	--	546	--	59	1,760	4,348
Still Gas	--	--	1,254	--	--	--	--	--	--	1,254	--
Miscellaneous Products	--	--	93	--	--	--	2	--	13	78	29
Total	16,403	1,066	118,799	54,013	118,339	438	2,032	117,271	5,508	184,248	172,163

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	18,094	--	--	333,140	39,370	3,849	-766	391,215	4,004	0	11,479
Hydrocarbon Gas Liquids	155,956	-183	11,508	17,599	-5,567	--	710	13,112	42,351	123,140	8,477
Natural Gas Liquids	155,956	-183	6,463	13,713	-8,655	--	637	13,112	42,351	111,194	--
Ethane	65,529	--	--	--	--	--	14	--	13,626	1,174	--
Propane	51,992	--	8,170	12,436	36,809	--	-10	--	18,306	91,111	--
Normal Butane	15,608	--	-1,325	607	3,955	--	478	6,841	1,612	9,914	--
Isobutane	7,830	--	-382	670	1,421	--	18	4,848	9	4,664	--
Natural Gasoline	14,997	-183	--	--	-125	--	137	1,423	8,797	4,332	--
Refinery Olefins	--	--	5,045	3,886	--	--	73	--	--	11,946	--
Ethylene	--	--	183	--	--	--	--	--	--	183	--
Propylene	--	--	5,043	3,879	--	--	-5	--	--	12,015	--
Butylene	--	--	-756	7	--	--	48	--	--	-797	--
Isobutylene	--	--	575	--	--	--	30	--	--	545	--
Other Liquids	--	11,741	--	221,540	685,953	65,632	-3,981	991,241	12,379	-14,773	69,128
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	11,777	--	6,399	113,379	-3,700	-300	127,193	961	0	8,810
Hydrogen	--	--	--	--	--	1,193	--	1,193	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	15	--	--	15	0	--
Renewable Fuels (including Fuel Ethanol)	--	11,777	--	6,397	113,379	-4,906	-300	126,000	947	0	8,810
Fuel Ethanol	--	9,793	--	100	111,378	2,412	728	122,103	852	0	7,014
Renewable Fuels Except Fuel Ethanol	--	1,984	--	6,297	2,001	-7,318	-1,028	3,897	94	0	1,796
Other Hydrocarbons	--	--	--	2	--	-2	--	--	--	0	--
Unfinished Oils	--	--	--	23,092	-377	--	741	25,751	10,996	-14,773	5,213
Motor Gasoline Blend.Comp. (MGBC)	--	-36	--	192,049	572,951	69,333	-4,422	838,297	422	0	55,105
Reformulated	--	--	--	76,360	99,026	34,368	240	209,509	5	0	19,863
Conventional	--	-36	--	115,689	473,925	34,965	-4,662	628,788	417	0	35,242
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,401,903	119,050	553,459	-64,339	-19,680	--	58,352	1,971,401	83,079
Finished Motor Gasoline	--	--	1,178,076	9,314	83,212	-71,745	13	--	3,049	1,195,795	5,505
Reformulated	--	--	473,465	--	--	-27,673	-7	--	--	445,799	24
Conventional	--	--	704,611	9,314	83,212	-44,072	20	--	3,049	749,996	5,481
Finished Aviation Gasoline	--	--	--	75	13,001	--	11	--	--	13,065	175
Kerosene-Type Jet Fuel	--	--	33,840	24,131	161,482	--	-1,569	--	1,178	219,844	9,509
Kerosene	--	--	1,249	1,112	128	--	27	--	652	1,810	1,798
Distillate Fuel Oil ⁶	--	--	122,299	44,019	271,300	7,406	-14,274	--	24,982	434,317	52,677
15 ppm sulfur and under	--	--	104,828	30,730	249,225	7,406	-9,599	--	21,381	380,407	43,858
Greater than 15 ppm to 500 ppm sulfur	--	--	1,142	759	3,303	--	-1,796	--	3,497	3,503	4,592
Greater than 500 ppm sulfur	--	--	16,329	12,530	18,772	--	-2,879	--	103	50,407	4,227
Residual Fuel Oil ⁷	--	--	16,374	27,391	468	--	-3,692	--	15,597	32,328	7,304
Less than 0.31 percent sulfur	--	--	3,706	1,209	-183	--	190	--	NA	NA	1,190
0.31 to 1.00 percent sulfur	--	--	4,964	3,656	-17	--	-1,217	--	NA	NA	1,426
Greater than 1.00 percent sulfur	--	--	7,704	22,526	668	--	-2,665	--	NA	NA	4,688
Petrochemical Feedstocks	--	--	1,381	305	-280	--	-61	--	--	1,467	98
Naphtha for Petro. Feed. Use	--	--	1,381	305	--	--	-61	--	--	1,747	98
Other Oils for Petro. Feed. Use	--	--	--	--	-280	--	--	--	--	-280	--
Special Naphthas	--	--	250	--	--	--	25	--	--	225	47
Lubricants	--	--	4,756	2,481	5,836	--	-146	--	2,506	10,713	1,062
Waxes	--	--	10	863	9	--	150	--	819	-87	527
Petroleum Coke	--	--	12,733	217	7,084	--	--	--	8,522	11,511	--
Marketable	--	--	4,439	217	7,084	--	--	--	8,522	3,217	--
Catalyst	--	--	8,294	--	--	--	--	--	--	8,294	--
Asphalt and Road Oil	--	--	14,369	9,142	11,220	--	-156	--	906	33,981	4,348
Still Gas	--	--	15,413	--	--	--	--	--	--	15,413	--
Miscellaneous Products	--	--	1,153	--	--	--	-8	--	143	1,018	29
Total	174,050	11,558	1,413,411	691,329	1,273,215	5,143	-23,717	1,395,568	117,087	2,079,768	172,163

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	56	--	--	829	173	8	-50	1,116	--	0
Hydrocarbon Gas Liquids	473	-1	12	60	17	--	-46	53	94	460
Natural Gas Liquids	473	-1	-4	50	12	--	-48	53	94	431
Ethane	207	--	--	--	--	--	1	--	34	10
Propane	154	--	24	48	146	--	-32	--	--	348
Normal Butane	46	--	-26	1	25	--	-16	33	1	27
Isobutane	23	--	-2	1	2	--	0	14	0	10
Natural Gasoline	43	-1	--	--	0	--	-2	6	3	35
Refinery Olefins	--	--	16	10	--	--	2	--	--	29
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	15	10	5	--	0	--	--	30
Butylene	--	--	-2	--	--	--	2	--	--	-4
Isobutylene	--	--	2	--	--	--	-1	--	--	2
Other Liquids	--	35	--	440	1,958	184	23	2,614	4	-25
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	35	--	14	329	-33	-2	344	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	35	--	14	329	-37	-2	340	3	0
Fuel Ethanol ⁶	--	29	--	--	314	-19	-11	331	3	0
Renewable Fuels Except Fuel Ethanol	--	6	--	14	15	-17	9	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	58	--	--	-1	83	1	-25
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	368	1,629	217	26	2,188	0	0
Reformulated	--	--	--	167	273	119	25	535	0	0
Conventional	--	0	--	200	1,357	97	1	1,653	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,820	414	1,669	-177	138	--	80	5,509
Finished Motor Gasoline	--	--	3,199	31	213	-198	35	--	3	3,208
Reformulated	--	--	1,326	--	--	-134	0	--	--	1,192
Conventional	--	--	1,873	31	213	-63	36	--	3	2,016
Finished Aviation Gasoline	--	--	--	1	40	--	1	--	--	40
Kerosene-Type Jet Fuel	--	--	103	76	461	--	40	--	1	600
Kerosene	--	--	6	--	4	--	11	--	0	-2
Distillate Fuel Oil ⁶	--	--	341	235	881	20	31	--	16	1,430
15 ppm sulfur and under	--	--	293	169	811	20	23	--	12	1,259
Greater than 15 ppm to 500 ppm sulfur	--	--	-8	11	8	--	4	--	5	2
Greater than 500 ppm sulfur	--	--	55	55	62	--	3	--	--	169
Residual Fuel Oil ⁷	--	--	44	54	3	--	0	--	21	80
Less than 0.31 percent sulfur	--	--	5	--	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	--	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	54	3	--	5	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	3	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	14	4	10	--	0	--	8	19
Waxes	--	--	-1	1	--	--	2	--	2	-3
Petroleum Coke	--	--	35	--	25	--	--	--	27	34
Marketable	--	--	11	--	25	--	--	--	27	10
Catalyst	--	--	24	--	--	--	--	--	--	24
Asphalt and Road Oil	--	--	32	12	32	--	18	--	2	57
Still Gas	--	--	40	--	--	--	--	--	--	40
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	529	34	3,832	1,742	3,817	14	66	3,783	178	5,943

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	50	--	--	913	108	11	-2	1,072	11	0
Hydrocarbon Gas Liquids	427	-1	32	48	-15	--	2	36	116	337
Natural Gas Liquids	427	-1	18	38	-24	--	2	36	116	305
Ethane	180	--	--	--	--	--	0	--	37	3
Propane	142	--	22	34	101	--	0	--	--	250
Normal Butane	43	--	-4	2	11	--	1	19	4	27
Isobutane	21	--	-1	2	4	--	0	13	0	13
Natural Gasoline	41	-1	--	--	0	--	0	4	24	12
Refinery Olefins	--	--	14	11	--	--	0	--	--	33
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	14	11	8	--	0	--	--	33
Butylene	--	--	-2	0	--	--	0	--	--	-2
Isobutylene	--	--	2	--	--	--	0	--	--	1
Other Liquids	--	32	--	607	1,879	180	-11	2,716	34	-40
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	18	311	-10	-1	348	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	18	311	-13	-1	345	3	0
Fuel Ethanol ⁶	--	27	--	0	305	7	2	335	2	0
Renewable Fuels Except Fuel Ethanol	--	5	--	17	5	-20	-3	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	63	-1	--	2	71	30	-40
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	526	1,570	190	-12	2,297	1	0
Reformulated	--	--	--	209	271	94	1	574	0	0
Conventional	--	0	--	317	1,298	96	-13	1,723	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,841	326	1,516	-176	-54	--	160	5,401
Finished Motor Gasoline	--	--	3,228	26	228	-197	0	--	8	3,276
Reformulated	--	--	1,297	--	--	-76	0	--	--	1,221
Conventional	--	--	1,930	26	228	-121	0	--	8	2,055
Finished Aviation Gasoline	--	--	--	0	36	--	0	--	--	36
Kerosene-Type Jet Fuel	--	--	93	66	442	--	-4	--	3	602
Kerosene	--	--	3	3	0	--	0	--	2	5
Distillate Fuel Oil ⁶	--	--	335	121	743	20	-39	--	68	1,190
15 ppm sulfur and under	--	--	287	84	683	20	-26	--	59	1,042
Greater than 15 ppm to 500 ppm sulfur	--	--	3	2	9	--	-5	--	10	10
Greater than 500 ppm sulfur	--	--	45	34	51	--	-8	--	0	138
Residual Fuel Oil ⁷	--	--	45	75	1	--	-10	--	43	89
Less than 0.31 percent sulfur	--	--	10	3	-1	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	10	0	--	-3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	62	2	--	-7	--	NA	NA
Petrochemical Feedstocks	--	--	4	1	-1	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	4	1	--	--	0	--	--	5
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	7	16	--	0	--	7	29
Waxes	--	--	0	2	0	--	0	--	2	0
Petroleum Coke	--	--	35	1	19	--	--	--	23	32
Marketable	--	--	12	1	19	--	--	--	23	9
Catalyst	--	--	23	--	--	--	--	--	--	23
Asphalt and Road Oil	--	--	39	25	31	--	0	--	2	93
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	477	32	3,872	1,894	3,488	14	-65	3,823	321	5,698

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	57,893	--	--	84,646	-18,348	-10,718	-10,878	118,444	5,907	0	131,743
Hydrocarbon Gas Liquids	27,346	-605	238	3,366	-9,967	--	-8,509	4,278	7,039	17,570	50,129
Natural Gas Liquids	27,346	-605	-1,135	2,906	-9,353	--	-8,442	4,278	7,039	16,284	49,376
Ethane	9,259	--	--	--	--	--	-996	--	2,678	2,522	5,033
Propane	10,057	--	2,374	2,367	-8,236	--	-4,073	--	88	10,547	20,019
Normal Butane	3,522	--	-3,326	293	-1,412	--	-3,815	1,999	194	699	11,815
Isobutane	1,506	--	-183	242	5	--	-187	1,443	0	314	2,160
Natural Gasoline	3,002	-605	--	4	5,345	--	629	836	4,079	2,202	10,349
Refinery Olefins	--	--	1,373	460	--	--	-67	--	--	1,286	753
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,450	398	--	--	-94	--	--	1,328	638
Butylene	--	--	-77	62	--	--	27	--	--	-42	115
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,330	--	623	-16,503	805	5,219	11,431	2,451	-1,845	69,520
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	32,331	--	25	-22,899	1,534	1,192	9,306	494	0	10,378
Hydrogen	--	--	--	--	--	1,285	--	1,285	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	7
Renewable Fuels (including Fuel Ethanol)	--	32,331	--	25	-22,899	224	1,190	7,998	493	0	10,324
Fuel Ethanol	--	30,009	--	--	-22,128	1,049	808	7,635	487	0	9,080
Renewable Fuels Except Fuel Ethanol	--	2,322	--	25	-771	-825	382	363	6	0	1,244
Other Hydrocarbons	--	--	--	--	--	25	2	23	--	0	47
Unfinished Oils	--	--	--	123	-295	--	-252	-30	1,955	-1,845	13,468
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	475	6,691	-729	4,279	2,155	2	0	45,674
Reformulated	--	--	--	62	1,431	-120	744	629	--	0	6,163
Conventional	--	-1	--	413	5,260	-609	3,535	1,526	2	0	39,511
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	142	141,344	894	1,321	505	4,926	--	1,082	138,199	56,477
Finished Motor Gasoline	--	142	79,039	--	-500	-320	38	--	136	78,187	6,536
Reformulated	--	--	11,534	--	--	193	--	--	--	11,727	--
Conventional	--	142	67,505	--	-500	-513	38	--	136	66,460	6,536
Finished Aviation Gasoline	--	--	59	3	15	--	18	--	--	59	158
Kerosene-Type Jet Fuel	--	--	8,109	--	1,243	--	4	--	40	9,308	6,900
Kerosene	--	--	179	--	--	--	23	--	4	152	120
Distillate Fuel Oil	--	--	36,319	186	2,640	825	3,426	--	171	36,373	28,795
15 ppm sulfur and under	--	--	36,317	171	2,570	825	3,575	--	0	36,308	28,132
Greater than 15 ppm to 500 ppm sulfur	--	--	249	--	110	--	-142	--	71	430	324
Greater than 500 ppm sulfur	--	--	-247	15	-40	--	-7	--	100	-365	339
Residual Fuel Oil ⁶	--	--	1,583	108	-822	--	155	--	232	482	1,233
Less than 0.31 percent sulfur	--	--	14	--	--	--	14	--	NA	NA	109
0.31 to 1.00 percent sulfur	--	--	288	108	-64	--	57	--	NA	NA	184
Greater than 1.00 percent sulfur	--	--	1,281	--	-758	--	84	--	NA	NA	940
Petrochemical Feedstocks	--	--	750	156	-74	--	-54	--	--	886	488
Naphtha for Petro. Feed. Use	--	--	471	82	-59	--	-35	--	--	529	352
Other Oils for Petro. Feed. Use	--	--	279	74	-15	--	-19	--	--	357	136
Special Naphthas	--	--	37	42	44	--	-42	--	--	165	101
Lubricants	--	--	244	207	228	--	70	--	194	415	883
Waxes	--	--	28	1	--	--	8	--	19	2	63
Petroleum Coke	--	--	6,073	14	-749	--	209	--	195	4,934	1,517
Marketable	--	--	4,603	14	-749	--	209	--	195	3,464	1,517
Catalyst	--	--	1,470	--	--	--	--	--	--	1,470	--
Asphalt and Road Oil	--	--	3,973	175	-716	--	1,069	--	90	2,273	9,558
Still Gas	--	--	4,450	--	--	--	--	--	--	4,450	--
Miscellaneous Products	--	--	501	2	12	--	2	--	0	513	125
Total	85,239	31,867	141,582	89,529	-43,496	-9,408	-9,242	134,153	16,479	153,923	307,869

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NA = Not Available.

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³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	630,685	--	--	940,120	-83,141	-66,660	-19,536	1,371,584	68,956	0	131,743
Hydrocarbon Gas Liquids	306,847	-7,226	40,696	30,506	-114,964	--	2,202	37,700	78,260	137,697	50,129
Natural Gas Liquids	306,847	-7,226	23,703	25,404	-106,469	--	2,139	37,700	78,260	124,160	--
Ethane	101,359	--	--	--	--	--	-648	--	21,173	32,403	--
Propane	113,461	--	27,122	20,541	-95,760	--	-1,482	--	2,529	64,317	--
Normal Butane	37,412	--	-4	2,361	-16,819	--	2,954	10,607	3,802	3,988	--
Isobutane	19,204	--	-1,810	2,451	-223	--	258	17,541	3	1,820	--
Natural Gasoline	35,411	-7,226	--	51	54,764	--	1,057	9,552	50,758	21,633	--
Refinery Olefins	--	--	16,993	5,102	--	--	63	--	--	13,537	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	15,737	4,229	--	--	5	--	--	11,466	--
Butylene	--	--	1,256	873	--	--	58	--	--	2,071	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	370,816	--	4,396	-139,687	-22,207	2,983	204,401	24,077	-18,142	69,520
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	370,829	--	543	-239,460	-10,515	2,578	110,412	8,408	0	10,378
Hydrogen	--	--	--	--	--	14,059	--	14,059	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	11	--	--	--	3	7	--	7	0	7
Renewable Fuels (including Fuel Ethanol)	--	370,818	--	428	-239,460	-24,882	2,541	95,963	8,400	0	10,324
Fuel Ethanol	--	345,329	--	--	-232,237	-13,311	1,986	90,588	7,208	0	9,080
Renewable Fuels Except Fuel Ethanol	--	25,489	--	428	-7,223	-11,572	555	5,375	1,192	0	1,244
Other Hydrocarbons	--	--	--	115	--	305	30	390	--	0	47
Unfinished Oils	--	--	--	123	-2,122	--	331	1,242	14,570	-18,142	13,468
Motor Gasoline Blend.Comp. (MGBC)	--	-13	--	3,730	101,895	-11,692	74	92,747	1,099	0	45,674
Reformulated	--	-1	--	320	21,870	-12,012	-384	10,561	0	0	6,163
Conventional	--	-12	--	3,410	80,025	320	458	82,186	1,099	0	39,511
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,337	1,657,853	9,441	27,138	36,615	-4,956	--	17,748	1,719,592	56,477
Finished Motor Gasoline	--	1,337	945,238	--	3,882	25,002	-711	--	2,026	974,144	6,536
Reformulated	--	--	132,951	--	--	14,370	--	--	--	147,321	--
Conventional	--	1,337	812,287	--	3,882	10,632	-711	--	2,026	826,823	6,536
Finished Aviation Gasoline	--	--	586	27	595	--	-53	--	--	1,261	158
Kerosene-Type Jet Fuel	--	--	94,534	5	10,406	--	71	--	2,411	102,463	6,900
Kerosene	--	--	743	--	--	--	-76	--	321	498	120
Distillate Fuel Oil	--	--	401,305	673	37,839	11,613	-3,767	--	2,926	452,271	28,795
15 ppm sulfur and under	--	--	402,021	584	36,466	11,613	-3,156	--	12	453,828	28,132
Greater than 15 ppm to 500 ppm sulfur	--	--	731	--	1,101	--	-126	--	1,211	747	324
Greater than 500 ppm sulfur	--	--	-1,447	89	272	--	-485	--	1,703	-2,304	339
Residual Fuel Oil ⁶	--	--	18,578	956	-10,067	--	-256	--	3,363	6,360	1,233
Less than 0.31 percent sulfur	--	--	1,040	--	-478	--	77	--	NA	NA	109
0.31 to 1.00 percent sulfur	--	--	2,753	543	-221	--	-103	--	NA	NA	184
Greater than 1.00 percent sulfur	--	--	14,785	413	-9,368	--	-230	--	NA	NA	940
Petrochemical Feedstocks	--	--	11,374	1,771	-1,236	--	-45	--	--	11,954	488
Naphtha for Petro. Feed. Use	--	--	8,276	892	-1,121	--	-39	--	--	8,086	352
Other Oils for Petro. Feed. Use	--	--	3,098	879	-115	--	-6	--	--	3,868	136
Special Naphthas	--	--	613	537	289	--	-60	--	--	1,499	101
Lubricants	--	--	2,823	2,330	2,712	--	143	--	2,303	5,419	883
Waxes	--	--	399	75	--	--	19	--	312	143	63
Petroleum Coke	--	--	70,112	265	-10,349	--	439	--	2,613	56,976	1,517
Marketable	--	--	52,502	265	-10,349	--	439	--	2,613	39,366	1,517
Catalyst	--	--	17,610	--	--	--	--	--	--	17,610	--
Asphalt and Road Oil	--	--	54,172	2,796	-7,158	--	-662	--	1,465	49,008	9,558
Still Gas	--	--	51,516	--	--	--	--	--	--	51,516	--
Miscellaneous Products	--	--	5,860	6	225	--	2	--	8	6,081	125
Total	937,532	364,927	1,698,549	984,463	-310,653	-52,252	-19,307	1,613,685	189,041	1,839,148	307,869

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,868	--	--	2,731	-592	-346	-351	3,821	191	0
Hydrocarbon Gas Liquids	882	-20	8	109	-322	--	-274	138	227	567
Natural Gas Liquids	882	-20	-37	94	-302	--	-272	138	227	525
Ethane	299	--	--	--	--	--	-32	--	86	81
Propane	324	--	77	76	-266	--	-131	--	3	340
Normal Butane	114	--	-2,542	9	-46	--	-123	64	6	23
Isobutane	49	--	-6	8	0	--	-6	47	0	10
Natural Gasoline	97	-20	--	0	172	--	20	27	132	71
Refinery Olefins	--	--	44	15	--	--	-2	--	--	41
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	47	13	-20	--	-3	--	--	43
Butylene	--	--	-2	2	--	--	1	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,043	--	20	-532	26	168	369	79	-60
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,043	--	1	-739	49	38	300	16	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,043	--	1	-739	7	38	258	16	0
Fuel Ethanol	--	968	--	--	-714	34	26	246	16	0
Renewable Fuels Except Fuel Ethanol	--	75	--	1	-25	-27	12	12	0	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	4	-10	--	-8	-1	63	-60
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	15	216	-24	138	70	0	0
Reformulated	--	--	--	2	46	-4	24	20	--	0
Conventional	--	0	--	13	170	-20	114	49	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,559	29	43	16	159	--	35	4,458
Finished Motor Gasoline	--	5	2,550	--	-16	-10	1	--	4	2,522
Reformulated	--	--	372	--	--	6	--	--	--	378
Conventional	--	5	2,178	--	-16	-17	1	--	4	2,144
Finished Aviation Gasoline	--	--	2	0	0	--	1	--	--	2
Kerosene-Type Jet Fuel	--	--	262	--	40	--	0	--	1	300
Kerosene	--	--	6	--	--	--	1	--	0	5
Distillate Fuel Oil	--	--	1,172	6	85	27	111	--	6	1,173
15 ppm sulfur and under	--	--	1,172	6	83	27	115	--	0	1,171
Greater than 15 ppm to 500 ppm sulfur	--	--	8	--	4	--	-5	--	2	14
Greater than 500 ppm sulfur	--	--	-8	0	-1	--	0	--	3	-12
Residual Fuel Oil ⁶	--	--	51	3	-27	--	5	--	7	16
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	9	3	-2	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	--	-24	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	24	5	-2	--	-2	--	--	29
Naphtha for Petro. Feed. Use	--	--	15	3	-2	--	-1	--	--	17
Other Oils for Petro. Feed. Use	--	--	9	2	0	--	-1	--	--	12
Special Naphthas	--	--	1	1	1	--	-1	--	--	5
Lubricants	--	--	8	7	7	--	2	--	6	13
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	196	0	-24	--	7	--	6	159
Marketable	--	--	148	0	-24	--	7	--	6	112
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	128	6	-23	--	34	--	3	73
Still Gas	--	--	144	--	--	--	--	--	--	144
Miscellaneous Products	--	--	16	0	0	--	0	--	0	17
Total	2,750	1,028	4,567	2,888	-1,403	-303	-298	4,328	532	4,965

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,728	--	--	2,576	-228	-183	-54	3,758	189	0
Hydrocarbon Gas Liquids	841	-20	111	84	-315	--	6	103	214	377
Natural Gas Liquids	841	-20	65	70	-292	--	6	103	214	340
Ethane	278	--	--	--	--	--	-2	--	58	89
Propane	311	--	74	56	-262	--	-4	--	7	176
Normal Butane	102	--	-4	6	-46	--	8	29	10	11
Isobutane	53	--	-5	7	-1	--	1	48	0	5
Natural Gasoline	97	-20	--	0	150	--	3	26	139	59
Refinery Olefins	--	--	47	14	--	--	0	--	--	37
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	12	-23	--	0	--	--	31
Butylene	--	--	3	2	--	--	0	--	--	6
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,016	--	12	-383	-61	8	560	66	-50
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,016	--	1	-656	-29	7	302	23	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,016	--	1	-656	-68	7	263	23	0
Fuel Ethanol	--	946	--	--	-636	-36	5	248	20	0
Renewable Fuels Except Fuel Ethanol	--	70	--	1	-20	-32	2	15	3	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	0	-6	--	1	3	40	-50
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	279	-32	0	254	3	0
Reformulated	--	0	--	1	60	-33	-1	29	0	0
Conventional	--	0	--	9	219	1	1	225	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,542	26	74	100	-14	--	49	4,711
Finished Motor Gasoline	--	4	2,590	--	11	68	-2	--	6	2,669
Reformulated	--	--	364	--	--	39	--	--	--	404
Conventional	--	4	2,225	--	11	29	-2	--	6	2,265
Finished Aviation Gasoline	--	--	2	0	2	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	259	0	29	--	0	--	7	281
Kerosene	--	--	2	--	--	--	0	--	1	1
Distillate Fuel Oil	--	--	1,099	2	104	32	-10	--	8	1,239
15 ppm sulfur and under	--	--	1,101	2	100	32	-9	--	0	1,243
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	3	--	0	--	3	2
Greater than 500 ppm sulfur	--	--	-4	0	1	--	-1	--	5	-6
Residual Fuel Oil ⁶	--	--	51	3	-28	--	-1	--	9	17
Less than 0.31 percent sulfur	--	--	3	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	8	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	1	-26	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	23	2	-3	--	0	--	--	22
Other Oils for Petro. Feed. Use	--	--	8	2	0	--	0	--	--	11
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	8	6	7	--	0	--	6	15
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	192	1	-28	--	1	--	7	156
Marketable	--	--	144	1	-28	--	1	--	7	108
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	148	8	-20	--	-2	--	4	134
Still Gas	--	--	141	--	--	--	--	--	--	141
Miscellaneous Products	--	--	16	0	1	--	0	--	0	17
Total	2,569	1,000	4,654	2,697	-851	-143	-53	4,421	518	5,039

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	193,457	--	--	77,386	25,601	15,969	-14,349	285,736	41,026	0	867,366
Hydrocarbon Gas Liquids	65,496	-18	10,029	177	19,555	--	-14,466	13,062	37,011	59,632	125,331
Natural Gas Liquids	65,496	-18	2,807	--	19,109	--	-14,696	13,062	37,011	52,017	120,379
Ethane	28,159	--	185	--	--	--	-2,383	--	3,531	41,006	49,664
Propane	20,021	--	5,725	--	7,270	--	-1,190	--	28,383	5,823	33,538
Normal Butane	2,926	--	-2,542	--	1,361	--	-8,693	5,112	5,062	264	22,725
Isobutane	7,823	--	-561	--	533	--	-661	3,872	15	4,569	5,366
Natural Gasoline	6,567	-18	--	--	-3,865	--	-1,769	4,078	19	356	9,086
Refinery Olefins	--	--	7,222	177	--	--	230	--	--	7,615	4,952
Ethylene	--	--	8	--	--	--	0	--	--	8	0
Propylene	--	--	7,438	--	--	--	-111	--	--	7,995	4,023
Butylene	--	--	-195	177	--	--	341	--	--	-359	929
Isobutylene	--	--	-29	--	--	--	0	--	--	-29	0
Other Liquids	--	4,131	--	17,226	-53,365	-4,495	3,693	-56,355	17,508	-1,348	126,092
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	4,131	--	298	7,946	2,344	-113	9,314	5,519	0	6,821
Hydrogen	--	--	--	--	--	4,431	--	4,431	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,514	--	294	--	-777	-202	--	2,233	0	1,439
Renewable Fuels (including Fuel Ethanol)	--	1,617	--	--	7,946	-1,306	89	4,883	3,286	0	5,382
Fuel Ethanol	--	857	--	--	7,887	-791	205	4,474	3,274	0	4,078
Renewable Fuels Except Fuel Ethanol	--	760	--	--	60	-515	-116	409	12	0	1,304
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	16,839	295	--	863	7,505	10,112	-1,346	44,920
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	89	-61,606	-6,839	2,941	-73,174	1,877	0	74,336
Reformulated	--	--	--	--	-12,521	4,364	824	-8,991	10	0	11,132
Conventional	--	--	--	89	-49,085	-11,204	2,117	-64,183	1,866	0	63,204
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	2	0	--	-2	15
Finished Petroleum Products	--	--	251,008	5,938	-55,178	8,215	5,165	--	94,565	110,252	108,532
Finished Motor Gasoline	--	--	76,773	--	-6,538	7,630	343	--	30,255	47,267	8,882
Reformulated	--	--	14,173	--	--	-4,941	--	--	--	9,232	--
Conventional	--	--	62,600	--	-6,538	12,571	343	--	30,255	38,035	8,882
Finished Aviation Gasoline	--	--	319	--	-1,244	--	82	--	--	-1,007	469
Kerosene-Type Jet Fuel	--	--	27,804	--	-16,560	--	-1,300	--	4,532	8,012	13,844
Kerosene	--	--	215	--	-128	--	51	--	133	-97	176
Distillate Fuel Oil	--	--	95,148	1,109	-30,835	584	6,359	--	38,462	21,185	45,822
15 ppm sulfur and under	--	--	86,120	--	-28,607	584	5,272	--	34,074	18,751	38,803
Greater than 15 ppm to 500 ppm sulfur	--	--	3,366	--	-347	--	772	--	2,627	-380	2,241
Greater than 500 ppm sulfur	--	--	5,662	1,109	-1,881	--	315	--	1,760	2,815	4,778
Residual Fuel Oil ⁷	--	--	4,962	2,712	723	--	-2,329	--	6,367	4,359	16,357
Less than 0.31 percent sulfur	--	--	916	326	--	--	-514	--	NA	NA	650
0.31 to 1.00 percent sulfur	--	--	205	--	64	--	-43	--	NA	NA	4,467
Greater than 1.00 percent sulfur	--	--	3,841	2,386	659	--	-1,772	--	NA	NA	11,240
Petrochemical Feedstocks	--	--	8,742	381	112	--	-112	--	--	9,347	2,313
Naphtha for Petro. Feed. Use	--	--	5,822	365	59	--	-54	--	--	6,300	1,397
Other Oils for Petro. Feed. Use	--	--	2,920	16	53	--	-58	--	--	3,047	916
Special Naphthas	--	--	1,130	506	-44	--	100	--	--	1,492	999
Lubricants	--	--	4,719	890	-462	--	1,200	--	2,272	1,675	9,061
Waxes	--	--	108	44	--	--	68	--	13	71	267
Petroleum Coke	--	--	15,516	296	163	--	220	--	12,023	3,732	5,563
Marketable	--	--	11,533	296	163	--	220	--	12,023	-251	5,563
Catalyst	--	--	3,983	--	--	--	--	--	--	3,983	--
Asphalt and Road Oil	--	--	2,266	--	-353	--	478	--	496	939	4,401
Still Gas	--	--	11,350	--	--	--	--	--	--	11,350	--
Miscellaneous Products	--	--	1,956	--	-12	--	5	--	13	1,926	378
Total	258,953	4,113	261,037	100,727	-63,386	19,688	-19,957	242,443	190,110	168,536	1,227,321

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	2,136,090	--	--	1,037,116	153,242	113,254	-73,499	3,183,559	329,643	0	867,366
Hydrocarbon Gas Liquids	734,048	-220	151,988	4,286	238,863	--	-11,380	116,271	371,023	653,051	125,331
Natural Gas Liquids	734,048	-220	75,435	2,733	233,456	--	-7,997	116,271	371,023	566,155	--
Ethane	304,843	--	1,932	--	--	--	5,534	--	31,100	408,773	--
Propane	225,376	--	59,189	14	100,603	--	-13,310	--	298,204	100,288	--
Normal Butane	36,127	--	16,066	--	25,313	--	5,880	32,635	40,018	-1,027	--
Isobutane	87,038	--	-1,752	30	6,438	--	31	42,242	1,361	48,120	--
Natural Gasoline	80,664	-220	--	2,689	-37,530	--	-6,132	41,394	340	10,001	--
Refinery Olefins	--	--	76,553	1,553	--	--	-3,383	--	--	86,896	--
Ethylene	--	--	87	--	--	--	0	--	--	87	--
Propylene	--	--	80,055	--	--	--	-2,149	--	--	87,611	--
Butylene	--	--	-3,300	1,553	--	--	-1,234	--	--	-513	--
Isobutylene	--	--	-289	--	--	--	0	--	--	-289	--
Other Liquids	--	43,594	--	181,888	-660,106	5,646	6,239	-602,011	139,215	27,579	126,092
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	43,594	--	5,673	66,048	41,172	-253	108,447	48,293	0	6,821
Hydrogen	--	--	--	--	--	49,152	--	49,152	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,349	--	3,841	--	-4,956	-38	318	24,954	0	1,439
Renewable Fuels (including Fuel Ethanol)	--	17,245	--	1,716	66,048	-2,908	-215	58,977	23,339	0	5,382
Fuel Ethanol	--	9,862	--	--	65,193	1,887	753	53,530	22,659	0	4,078
Renewable Fuels Except Fuel Ethanol	--	7,383	--	1,716	855	-4,795	-968	5,447	680	0	1,304
Other Hydrocarbons	--	--	--	116	--	-116	--	--	--	0	--
Unfinished Oils	--	--	--	162,487	2,499	--	3,348	65,862	68,123	27,653	44,920
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,728	-728,653	-35,526	3,138	-776,388	22,799	0	74,336
Reformulated	--	--	--	--	-149,191	42,895	-523	-105,857	84	0	11,132
Conventional	--	--	--	13,728	-579,462	-78,421	3,661	-670,531	22,715	0	63,204
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	6	68	--	-74	15
Finished Petroleum Products	--	--	2,764,622	60,656	-597,363	40,769	-15,260	--	1,011,053	1,272,890	108,532
Finished Motor Gasoline	--	--	812,910	1,187	-85,889	33,639	-2,592	--	246,023	518,415	8,882
Reformulated	--	--	168,848	--	--	-47,110	--	--	--	121,738	--
Conventional	--	--	644,062	1,187	-85,889	80,749	-2,592	--	246,023	396,678	8,882
Finished Aviation Gasoline	--	--	2,998	--	-13,776	--	52	--	--	-10,830	469
Kerosene-Type Jet Fuel	--	--	313,342	125	-182,891	--	-1,222	--	53,816	77,982	13,844
Kerosene	--	--	466	--	-128	--	-70	--	1,248	-840	176
Distillate Fuel Oil	--	--	1,034,168	4,487	-319,742	7,130	-2,970	--	436,570	292,443	45,822
15 ppm sulfur and under	--	--	937,896	--	-296,558	7,130	-3,580	--	380,395	271,653	38,803
Greater than 15 ppm to 500 ppm sulfur	--	--	36,234	--	-4,404	--	744	--	34,889	-3,803	2,241
Greater than 500 ppm sulfur	--	--	60,038	4,487	-18,780	--	-134	--	21,286	24,593	4,778
Residual Fuel Oil ⁷	--	--	75,888	24,124	9,599	--	-7,999	--	80,847	36,763	16,357
Less than 0.31 percent sulfur	--	--	12,248	2,903	661	--	-1,621	--	NA	NA	650
0.31 to 1.00 percent sulfur	--	--	4,073	1,594	238	--	-822	--	NA	NA	4,467
Greater than 1.00 percent sulfur	--	--	59,567	19,627	8,700	--	-5,556	--	NA	NA	11,240
Petrochemical Feedstocks	--	--	99,401	13,177	1,516	--	-234	--	--	114,328	2,313
Naphtha for Petro. Feed. Use	--	--	61,911	9,765	1,121	--	-63	--	--	72,860	1,397
Other Oils for Petro. Feed. Use	--	--	37,490	3,412	395	--	-171	--	--	41,468	916
Special Naphthas	--	--	12,495	4,797	-289	--	-7	--	--	17,010	999
Lubricants	--	--	49,916	9,619	-7,963	--	-768	--	32,103	20,237	9,061
Waxes	--	--	1,348	402	-9	--	17	--	275	1,449	267
Petroleum Coke	--	--	180,993	2,696	6,544	--	1,015	--	155,805	33,413	5,563
Marketable	--	--	138,563	2,696	6,544	--	1,015	--	155,805	-9,017	5,563
Catalyst	--	--	42,430	--	--	--	--	--	--	42,430	--
Asphalt and Road Oil	--	--	28,959	--	-4,110	--	-436	--	4,127	21,158	4,401
Still Gas	--	--	130,637	--	--	--	--	--	--	130,637	--
Miscellaneous Products	--	--	21,101	42	-225	--	-46	--	239	20,725	378
Total	2,870,138	43,374	2,916,610	1,283,946	-865,364	159,670	-93,900	2,697,819	1,850,934	1,953,520	1,227,321

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	6,241	--	--	2,496	826	515	-463	9,217	1,323	0
Hydrocarbon Gas Liquids	2,113	-1	324	6	631	--	-467	421	1,194	1,924
Natural Gas Liquids	2,113	-1	91	--	616	--	-474	421	1,194	1,678
Ethane	908	--	6	--	--	--	-77	--	114	1,323
Propane	646	--	185	--	235	--	-38	--	916	188
Normal Butane	94	--	-82	--	44	--	-280	165	163	9
Isobutane	252	--	-18	--	17	--	-21	125	0	147
Natural Gasoline	212	-1	--	--	-125	--	-57	132	1	11
Refinery Olefins	--	--	233	6	--	--	7	--	--	246
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	240	--	14	--	-4	--	--	258
Butylene	--	--	-6	6	--	--	11	--	--	-12
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	133	--	556	-1,721	-145	119	-1,818	565	-43
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	133	--	10	256	76	-4	300	178	0
Hydrogen	--	--	--	--	--	143	--	143	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	9	--	-25	-7	--	72	0
Renewable Fuels (including Fuel Ethanol)	--	52	--	--	256	-42	3	158	106	0
Fuel Ethanol	--	28	--	--	254	-26	7	144	106	0
Renewable Fuels Except Fuel Ethanol	--	25	--	--	2	-17	-4	13	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	543	10	--	28	242	326	-43
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	-1,987	-221	95	-2,360	61	0
Reformulated	--	--	--	--	-404	141	27	-290	0	0
Conventional	--	--	--	3	-1,583	-361	68	-2,070	60	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	8,097	192	-1,780	265	167	--	3,050	3,557
Finished Motor Gasoline	--	--	2,477	--	-211	246	11	--	976	1,525
Reformulated	--	--	457	--	--	-159	--	--	--	298
Conventional	--	--	2,019	--	-211	406	11	--	976	1,227
Finished Aviation Gasoline	--	--	10	--	-40	--	3	--	--	-32
Kerosene-Type Jet Fuel	--	--	897	--	-534	--	-42	--	146	258
Kerosene	--	--	7	--	-4	--	2	--	4	-3
Distillate Fuel Oil	--	--	3,069	36	-995	19	205	--	1,241	683
15 ppm sulfur and under	--	--	2,778	--	-923	19	170	--	1,099	605
Greater than 15 ppm to 500 ppm sulfur	--	--	109	--	-11	--	25	--	85	-12
Greater than 500 ppm sulfur	--	--	183	36	-61	--	10	--	57	91
Residual Fuel Oil ⁷	--	--	160	87	23	--	-75	--	205	141
Less than 0.31 percent sulfur	--	--	30	11	--	--	-17	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	--	2	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	124	77	21	--	-57	--	NA	NA
Petrochemical Feedstocks	--	--	282	12	4	--	-4	--	--	302
Naphtha for Petro. Feed. Use	--	--	188	12	2	--	-2	--	--	203
Other Oils for Petro. Feed. Use	--	--	94	1	2	--	-2	--	--	98
Special Naphthas	--	--	36	16	-1	--	3	--	--	48
Lubricants	--	--	152	29	-15	--	39	--	73	54
Waxes	--	--	3	1	--	--	2	--	0	2
Petroleum Coke	--	--	501	10	5	--	7	--	388	120
Marketable	--	--	372	10	5	--	7	--	388	-8
Catalyst	--	--	128	--	--	--	--	--	--	128
Asphalt and Road Oil	--	--	73	--	-11	--	15	--	16	30
Still Gas	--	--	366	--	--	--	--	--	--	366
Miscellaneous Products	--	--	63	--	0	--	0	--	0	62
Total	8,353	133	8,421	3,249	-2,045	635	-644	7,821	6,133	5,437

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other sources.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,852	--	--	2,841	420	310	-201	8,722	903	0
Hydrocarbon Gas Liquids	2,011	-1	416	12	654	--	-31	319	1,017	1,789
Natural Gas Liquids	2,011	-1	207	7	640	--	-22	319	1,017	1,551
Ethane	835	--	5	--	--	--	15	--	85	1,120
Propane	617	--	162	0	276	--	-36	--	817	275
Normal Butane	99	--	681	--	69	--	16	89	110	-3
Isobutane	238	--	-5	0	18	--	0	116	4	132
Natural Gasoline	221	-1	--	7	-103	--	-17	113	1	27
Refinery Olefins	--	--	210	4	--	--	-9	--	--	238
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	219	--	15	--	-6	--	--	240
Butylene	--	--	-9	4	--	--	-3	--	--	-1
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	119	--	498	-1,809	15	17	-1,649	381	76
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	119	--	16	181	113	-1	297	132	0
Hydrogen	--	--	--	--	--	135	--	135	--	0
Oxygenates (excluding Fuel Ethanol)	--	72	--	11	--	-14	0	1	68	0
Renewable Fuels (including Fuel Ethanol)	--	47	--	5	181	-8	-1	162	64	0
Fuel Ethanol	--	27	--	--	179	5	2	147	62	0
Renewable Fuels Except Fuel Ethanol	--	20	--	5	2	-13	-3	15	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	445	7	--	9	180	187	76
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	38	-1,996	-97	9	-2,127	62	0
Reformulated	--	--	--	--	-409	118	-1	-290	0	0
Conventional	--	--	--	38	-1,588	-215	10	-1,837	62	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,574	166	-1,637	112	-42	--	2,770	3,487
Finished Motor Gasoline	--	--	2,227	3	-235	92	-7	--	674	1,420
Reformulated	--	--	463	--	--	-129	--	--	--	334
Conventional	--	--	1,765	3	-235	221	-7	--	674	1,087
Finished Aviation Gasoline	--	--	8	--	-38	--	0	--	--	-30
Kerosene-Type Jet Fuel	--	--	858	0	-501	--	-3	--	147	214
Kerosene	--	--	1	--	0	--	0	--	3	-2
Distillate Fuel Oil	--	--	2,833	12	-876	20	-8	--	1,196	801
15 ppm sulfur and under	--	--	2,570	--	-812	20	-10	--	1,042	744
Greater than 15 ppm to 500 ppm sulfur	--	--	99	--	-12	--	2	--	96	-10
Greater than 500 ppm sulfur	--	--	164	12	-51	--	0	--	58	67
Residual Fuel Oil ⁷	--	--	208	66	26	--	-22	--	221	101
Less than 0.31 percent sulfur	--	--	34	8	2	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	4	1	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	163	54	24	--	-15	--	NA	NA
Petrochemical Feedstocks	--	--	272	36	4	--	-1	--	--	313
Naphtha for Petro. Feed. Use	--	--	170	27	3	--	0	--	--	200
Other Oils for Petro. Feed. Use	--	--	103	9	1	--	0	--	--	114
Special Naphthas	--	--	34	13	-1	--	0	--	--	47
Lubricants	--	--	137	26	-22	--	-2	--	88	55
Waxes	--	--	4	1	0	--	0	--	1	4
Petroleum Coke	--	--	496	7	18	--	3	--	427	92
Marketable	--	--	380	7	18	--	3	--	427	-25
Catalyst	--	--	116	--	--	--	--	--	--	116
Asphalt and Road Oil	--	--	79	--	-11	--	-1	--	11	58
Still Gas	--	--	358	--	--	--	--	--	--	358
Miscellaneous Products	--	--	58	0	-1	--	0	--	1	57
Total	7,863	119	7,991	3,518	-2,371	437	-257	7,391	5,071	5,352

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	24,677	--	--	10,853	-16,293	-810	-115	18,519	23	0	22,362
Hydrocarbon Gas Liquids	12,430	-9	30	427	-11,606	--	-523	700	72	1,023	3,633
Natural Gas Liquids	12,430	-9	6	427	-11,606	--	-533	700	72	1,009	3,618
Ethane	3,540	--	--	--	--	--	-17	--	2	-194	468
Propane	4,534	--	257	414	-3,865	--	-97	--	0	1,437	1,484
Normal Butane	1,751	--	-246	4	-1,662	--	-415	381	--	-119	1,036
Isobutane	801	--	-5	9	-860	--	-1	182	--	-236	275
Natural Gasoline	1,804	-9	--	--	-1,470	--	-3	137	69	122	355
Refinery Olefins	--	--	24	--	--	--	10	--	--	14	15
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	4	--	--	--	0	--	--	4	0
Butylene	--	--	20	--	--	--	10	--	--	10	15
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	420	--	12	47	-1,101	206	-970	0	141	8,871
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	420	--	4	542	130	-37	1,133	0	0	334
Hydrogen	--	--	--	--	--	227	--	227	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	420	--	4	542	-97	-37	906	--	0	334
Fuel Ethanol	--	420	--	--	542	-124	-40	878	--	0	324
Renewable Fuels Except Fuel Ethanol	--	--	--	4	--	27	3	28	--	0	10
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-329	188	0	141	2,751
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	8	-495	-1,232	572	-2,291	0	0	5,786
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-495	-1,232	572	-2,291	0	0	5,786
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	19,237	114	-35	1,329	990	--	25	19,630	8,582
Finished Motor Gasoline	--	--	8,642	--	83	1,356	-86	--	1	10,166	1,814
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	8,642	--	83	1,356	-86	--	1	10,166	1,814
Finished Aviation Gasoline	--	--	5	--	--	--	4	--	--	1	9
Kerosene-Type Jet Fuel	--	--	1,076	--	705	--	15	--	--	1,766	722
Kerosene	--	--	2	--	--	--	1	--	--	1	2
Distillate Fuel Oil	--	--	6,553	82	-244	-27	674	--	--	5,690	4,208
15 ppm sulfur and under	--	--	6,531	82	-244	-27	681	--	--	5,661	3,970
Greater than 15 ppm to 500 ppm sulfur	--	--	21	--	--	--	-8	--	--	29	172
Greater than 500 ppm sulfur	--	--	1	--	--	--	1	--	--	0	66
Residual Fuel Oil ⁶	--	--	382	--	--	--	24	--	14	344	215
Less than 0.31 percent sulfur	--	--	220	--	--	--	13	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	13	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	149	--	--	--	11	--	NA	NA	179
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	8	-7	--
Waxes	--	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	750	--	-278	--	32	--	0	440	83
Marketable	--	--	536	--	-278	--	32	--	0	226	83
Catalyst	--	--	214	--	--	--	--	--	--	214	--
Asphalt and Road Oil	--	--	1,050	30	-301	--	329	--	2	448	1,513
Still Gas	--	--	700	--	--	--	--	--	--	700	--
Miscellaneous Products	--	--	77	1	--	--	-3	--	0	81	16
Total	37,107	411	19,267	11,406	-27,887	-583	558	18,249	119	20,794	43,448

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	257,078	--	--	126,277	-158,575	2,221	-958	227,106	853	0	22,362
Hydrocarbon Gas Liquids	142,925	-112	4,850	4,046	-129,005	--	288	7,134	2,672	12,610	3,633
Natural Gas Liquids	142,925	-112	4,303	4,046	-129,005	--	312	7,134	2,672	12,039	--
Ethane	41,542	--	--	--	--	--	32	--	2	2,022	--
Propane	50,910	--	3,452	3,736	-45,282	--	131	--	2	12,683	--
Normal Butane	19,772	--	681	101	-17,392	--	81	2,541	203	337	--
Isobutane	9,151	--	170	209	-9,736	--	17	2,602	--	-2,825	--
Natural Gasoline	21,550	-112	--	--	-17,109	--	51	1,991	2,465	-178	--
Refinery Olefins	--	--	547	--	--	--	-24	--	--	571	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	155	--	--	--	0	--	--	155	--
Butylene	--	--	392	--	--	--	-24	--	--	416	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	5,100	--	419	419	-7,366	3	-2,870	99	1,340	8,871
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	5,100	--	53	4,168	4,494	-33	13,824	24	0	334
Hydrogen	--	--	--	--	--	2,515	--	2,515	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	5,100	--	53	4,168	1,978	-33	11,309	24	0	334
Fuel Ethanol	--	5,100	--	--	3,789	1,821	-29	10,739	0	0	324
Renewable Fuels Except Fuel Ethanol	--	--	--	53	379	157	-4	570	23	0	10
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-78	-1,336	74	1,340	2,751
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	366	-3,749	-11,860	114	-15,358	1	0	5,786
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-3,749	-11,860	114	-15,358	1	0	5,786
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	237,831	1,256	-6,744	9,882	-411	--	434	242,201	8,582
Finished Motor Gasoline	--	--	112,531	--	-5,061	10,039	-424	--	9	117,924	1,814
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	112,531	--	-5,061	10,039	-424	--	9	117,924	1,814
Finished Aviation Gasoline	--	--	49	9	--	--	0	--	--	58	9
Kerosene-Type Jet Fuel	--	--	13,038	156	8,010	--	122	--	--	21,082	722
Kerosene	--	--	4	--	--	--	1	--	--	3	2
Distillate Fuel Oil	--	--	75,167	605	-1,240	-157	-108	--	--	74,483	4,208
15 ppm sulfur and under	--	--	74,648	605	-976	-157	-72	--	--	74,192	3,970
Greater than 15 ppm to 500 ppm sulfur	--	--	451	--	--	--	-48	--	--	499	172
Greater than 500 ppm sulfur	--	--	68	--	-264	--	12	--	--	-208	66
Residual Fuel Oil ⁶	--	--	4,302	--	--	--	-9	--	221	4,090	215
Less than 0.31 percent sulfur	--	--	2,419	--	--	--	-2	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	242	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,641	--	--	--	-7	--	NA	NA	179
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	135	-134	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	9,378	--	-3,836	--	-61	--	1	5,602	83
Marketable	--	--	6,473	--	-3,836	--	-61	--	1	2,697	83
Catalyst	--	--	2,905	--	--	--	--	--	--	2,905	--
Asphalt and Road Oil	--	--	13,391	472	-4,617	--	69	--	67	9,110	1,513
Still Gas	--	--	8,653	--	--	--	--	--	--	8,653	--
Miscellaneous Products	--	--	1,318	13	--	--	-1	--	0	1,332	16
Total	400,003	4,988	242,681	131,998	-293,905	4,736	-1,078	231,370	4,059	256,151	43,448

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	796	--	--	350	-526	-26	-4	597	1	0
Hydrocarbon Gas Liquids	401	0	1	14	-374	--	-17	23	2	33
Natural Gas Liquids	401	0	0	14	-374	--	-17	23	2	33
Ethane	114	--	--	--	--	--	-1	--	--	-6
Propane	146	--	8	13	-125	--	-3	--	0	46
Normal Butane	56	--	-8	0	-54	--	-13	12	--	-4
Isobutane	26	--	0	0	-28	--	0	6	--	-8
Natural Gasoline	58	0	--	--	-47	--	0	4	2	4
Refinery Olefins	--	--	1	--	--	--	0	--	--	0
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	0	2	-36	7	-31	0	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	17	4	-1	37	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	17	-3	-1	29	--	0
Fuel Ethanol	--	14	--	--	17	-4	-1	28	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	--	1	0	1	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-11	6	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	-16	-40	18	-74	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-16	-40	18	-74	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	621	4	-1	43	32	--	1	633
Finished Motor Gasoline	--	--	279	--	3	44	-3	--	0	328
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	279	--	3	44	-3	--	0	328
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	35	--	23	--	0	--	--	57
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	211	3	-8	-1	22	--	--	184
15 ppm sulfur and under	--	--	211	3	-8	-1	22	--	--	183
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	1	--	0	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	24	--	-9	--	1	--	0	14
Marketable	--	--	17	--	-9	--	1	--	0	7
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	34	1	-10	--	11	--	0	14
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	2	0	--	--	0	--	0	3
Total	1,197	13	622	368	-900	-19	18	589	4	671

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	704	--	--	346	-434	6	-3	622	2	0
Hydrocarbon Gas Liquids	392	0	13	11	-353	--	1	20	7	35
Natural Gas Liquids	392	0	12	11	-353	--	1	20	7	33
Ethane	114	--	--	--	--	--	0	--	--	6
Propane	139	--	9	10	-124	--	0	--	0	35
Normal Butane	54	--	2	0	-48	--	0	7	1	1
Isobutane	25	--	0	1	-27	--	0	7	--	-8
Natural Gasoline	59	0	--	--	-47	--	0	5	7	0
Refinery Olefins	--	--	1	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	1	1	-20	0	-8	0	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	11	12	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	11	5	0	31	0	0
Fuel Ethanol	--	14	--	--	10	5	0	29	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-4	0	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-10	-32	0	-42	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-10	-32	0	-42	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	652	3	-18	27	-1	--	1	664
Finished Motor Gasoline	--	--	308	--	-14	28	-1	--	0	323
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	308	--	-14	28	-1	--	0	323
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	0	22	--	0	--	--	58
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	206	2	-3	0	0	--	--	204
15 ppm sulfur and under	--	--	205	2	-3	0	0	--	--	203
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	-1	--	0	--	--	-1
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	1	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	-11	--	0	--	0	15
Marketable	--	--	18	--	-11	--	0	--	0	7
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	37	1	-13	--	0	--	0	25
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,096	14	665	362	-805	13	-3	634	11	702

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	30,652	--	--	42,664	3,669	-1,538	-2,772	78,219	--	0	51,006
Hydrocarbon Gas Liquids	2,094	-14	-87	1,306	1,485	--	-1,581	3,571	900	1,894	3,334
Natural Gas Liquids	2,094	-14	-353	1,305	1,485	--	-1,579	3,571	900	1,625	3,306
Ethane	--	--	--	--	--	--	--	--	0	0	--
Propane	297	--	1,182	877	290	--	-525	--	787	2,384	1,461
Normal Butane	436	--	-1,614	401	950	--	-923	1,743	112	-759	1,395
Isobutane	337	--	79	27	245	--	-133	884	0	-63	416
Natural Gasoline	1,024	-14	--	--	--	--	2	944	2	62	34
Refinery Olefins	--	--	266	1	--	--	-2	--	--	269	28
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	269	1	--	--	11	--	--	259	27
Butylene	--	--	-3	--	--	--	-13	--	--	10	1
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	870	--	3,972	9,120	-1,990	1,775	9,256	531	410	54,843
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	870	--	329	4,224	835	-632	6,598	292	0	3,728
Hydrogen	--	--	--	--	--	1,182	--	1,182	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	870	--	329	4,224	-348	-632	5,416	290	0	3,728
Fuel Ethanol	--	636	--	--	3,967	56	-457	4,834	282	0	2,552
Renewable Fuels Except Fuel Ethanol	--	234	--	329	257	-405	-175	582	8	0	1,176
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,291	--	--	-102	2,945	38	410	19,908
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	352	4,896	-2,825	2,509	-287	201	0	31,207
Reformulated	--	--	--	--	2,630	-413	2,343	-126	0	0	16,297
Conventional	--	--	--	352	2,266	-2,412	166	-161	201	0	14,910
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	97,356	4,325	2,156	3,047	1,636	--	12,514	92,734	34,967
Finished Motor Gasoline	--	--	48,875	27	356	2,769	-346	--	2,349	50,024	1,904
Reformulated	--	--	34,268	--	--	533	-1	--	--	34,802	16
Conventional	--	--	14,607	27	356	2,236	-345	--	2,349	15,222	1,888
Finished Aviation Gasoline	--	--	89	2	--	--	-13	--	--	104	230
Kerosene-Type Jet Fuel	--	--	15,118	2,305	314	--	194	--	816	16,727	10,243
Kerosene	--	--	24	--	--	--	-3	--	6	21	42
Distillate Fuel Oil	--	--	19,129	99	1,129	279	1,467	--	4,795	14,373	14,072
15 ppm sulfur and under	--	--	18,481	99	1,129	279	1,592	--	3,988	14,408	13,128
Greater than 15 ppm to 500 ppm sulfur	--	--	296	--	--	--	-37	--	281	52	240
Greater than 500 ppm sulfur	--	--	352	--	--	--	-88	--	527	-87	704
Residual Fuel Oil ⁶	--	--	3,251	1,305	--	--	-255	--	419	4,392	4,250
Less than 0.31 percent sulfur	--	--	--	--	--	--	147	--	NA	NA	167
0.31 to 1.00 percent sulfur	--	--	844	152	--	--	59	--	NA	NA	520
Greater than 1.00 percent sulfur	--	--	2,407	1,153	--	--	-461	--	NA	NA	3,557
Petrochemical Feedstocks	--	--	3	--	--	--	1	--	--	2	2
Naphtha for Petro. Feed. Use	--	--	3	--	--	--	1	--	--	2	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	45	--	--	--	29	--	--	16	45
Lubricants	--	--	641	25	-90	--	48	--	363	165	1,015
Waxes	--	--	--	38	--	--	--	--	5	33	--
Petroleum Coke	--	--	5,122	20	83	--	147	--	3,731	1,346	1,356
Marketable	--	--	4,027	20	83	--	147	--	3,731	251	1,356
Catalyst	--	--	1,095	--	--	--	--	--	--	1,095	--
Asphalt and Road Oil	--	--	858	504	365	--	356	--	31	1,340	1,686
Still Gas	--	--	3,720	--	--	--	--	--	--	3,720	--
Miscellaneous Products	--	--	481	--	--	--	11	--	0	470	122
Total	32,746	856	97,269	52,267	16,430	-481	-942	91,046	13,946	95,037	144,150

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	359,679	--	--	451,135	49,104	27,058	-699	883,142	4,533	0	51,006
Hydrocarbon Gas Liquids	23,957	-161	20,342	12,821	10,673	--	-1,064	32,255	15,112	21,329	3,334
Natural Gas Liquids	23,957	-161	17,085	12,819	10,673	--	-1,070	32,255	15,112	18,076	--
Ethane	17	--	--	--	--	--	--	--	1	16	--
Propane	3,805	--	13,748	10,154	3,630	--	-102	--	11,116	20,323	--
Normal Butane	3,960	--	1,912	2,503	4,943	--	-911	11,996	3,885	-1,652	--
Isobutane	4,693	--	1,425	162	2,100	--	-56	10,142	0	-1,706	--
Natural Gasoline	11,482	-161	--	--	--	--	-1	10,117	110	1,095	--
Refinery Olefins	--	--	3,257	2	--	--	6	--	--	3,253	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3,220	2	--	--	15	--	--	3,207	--
Butylene	--	--	37	--	--	--	-9	--	--	46	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	10,233	--	62,129	113,420	-14,830	5,105	156,428	6,993	2,427	54,843
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	10,233	--	7,333	55,864	8,701	-322	80,092	2,362	0	3,728
Hydrogen	--	--	--	--	--	14,242	--	14,242	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	21	--	--	21	0	--
Renewable Fuels (including Fuel Ethanol)	--	10,233	--	7,333	55,864	-5,562	-322	65,850	2,340	0	3,728
Fuel Ethanol	--	7,176	--	1,724	51,877	-484	79	58,101	2,112	0	2,552
Renewable Fuels Except Fuel Ethanol	--	3,057	--	5,609	3,988	-5,078	-401	7,749	228	0	1,176
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	44,141	--	--	1,336	38,590	1,788	2,427	19,908
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	10,655	57,556	-23,531	4,091	37,746	2,843	0	31,207
Reformulated	--	--	--	268	28,295	-413	1,973	26,168	9	0	16,297
Conventional	--	--	--	10,387	29,261	-23,119	2,118	11,578	2,833	0	14,910
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,121,860	59,493	23,510	27,648	2,273	--	127,461	1,102,777	34,967
Finished Motor Gasoline	--	--	587,127	1,223	3,856	24,015	-255	--	21,446	595,030	1,904
Reformulated	--	--	411,954	--	--	505	0	--	--	412,459	16
Conventional	--	--	175,173	1,223	3,856	23,511	-255	--	21,446	182,571	1,888
Finished Aviation Gasoline	--	--	400	23	180	--	37	--	--	566	230
Kerosene-Type Jet Fuel	--	--	166,553	34,380	2,993	--	1,040	--	10,466	192,420	10,243
Kerosene	--	--	144	55	--	--	-5	--	41	163	42
Distillate Fuel Oil	--	--	203,255	4,429	11,843	3,632	1,237	--	38,123	183,799	14,072
15 ppm sulfur and under	--	--	194,635	4,331	11,843	3,632	1,278	--	24,156	189,007	13,128
Greater than 15 ppm to 500 ppm sulfur	--	--	3,609	--	--	--	-27	--	2,746	890	240
Greater than 500 ppm sulfur	--	--	5,011	98	--	--	-14	--	11,221	-6,098	704
Residual Fuel Oil ⁶	--	--	41,556	16,117	--	--	-228	--	6,554	51,347	4,250
Less than 0.31 percent sulfur	--	--	44	--	--	--	33	--	NA	NA	167
0.31 to 1.00 percent sulfur	--	--	7,584	1,502	--	--	-329	--	NA	NA	520
Greater than 1.00 percent sulfur	--	--	33,928	14,615	--	--	68	--	NA	NA	3,557
Petrochemical Feedstocks	--	--	34	442	--	--	1	--	--	475	2
Naphtha for Petro. Feed. Use	--	--	34	410	--	--	1	--	--	443	2
Other Oils for Petro. Feed. Use	--	--	--	32	--	--	--	--	--	32	--
Special Naphthas	--	--	330	45	--	--	16	--	--	359	45
Lubricants	--	--	7,453	554	-585	--	417	--	3,492	3,513	1,015
Waxes	--	--	--	411	--	--	--	--	70	341	--
Petroleum Coke	--	--	55,787	316	558	--	143	--	46,907	9,610	1,356
Marketable	--	--	43,190	316	558	--	143	--	46,907	-2,987	1,356
Catalyst	--	--	12,597	--	--	--	--	--	--	12,597	--
Asphalt and Road Oil	--	--	9,504	1,495	4,666	--	-175	--	357	15,483	1,686
Still Gas	--	--	44,599	--	--	--	--	--	--	44,599	--
Miscellaneous Products	--	--	5,118	3	--	--	45	--	3	5,073	122
Total	383,636	10,072	1,142,202	585,578	196,707	39,875	5,615	1,071,825	154,099	1,126,532	144,150

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	989	--	--	1,376	118	-50	-89	2,523	--	0
Hydrocarbon Gas Liquids	68	0	-3	42	48	--	-51	115	29	61
Natural Gas Liquids	68	0	-11	42	48	--	-51	115	29	52
Ethane	--	--	--	--	--	--	--	--	0	0
Propane	10	--	38	28	9	--	-17	--	25	77
Normal Butane	14	--	-52	13	31	--	-30	56	4	-24
Isobutane	11	--	3	1	8	--	-4	29	0	-2
Natural Gasoline	33	0	--	--	--	--	0	30	0	2
Refinery Olefins	--	--	9	0	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	8
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	28	--	128	294	-64	57	299	17	13
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	28	--	11	136	27	-20	213	9	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	11	136	-11	-20	175	9	0
Fuel Ethanol	--	21	--	--	128	2	-15	156	9	0
Renewable Fuels Except Fuel Ethanol	--	8	--	11	8	-13	-6	19	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	106	--	--	-3	95	1	13
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	11	158	-91	81	-9	6	0
Reformulated	--	--	--	--	85	-13	76	-4	0	0
Conventional	--	--	--	11	73	-78	5	-5	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,141	140	70	98	53	--	404	2,991
Finished Motor Gasoline	--	--	1,577	1	11	89	-11	--	76	1,614
Reformulated	--	--	1,105	--	--	17	0	--	--	1,123
Conventional	--	--	471	1	11	72	-11	--	76	491
Finished Aviation Gasoline	--	--	3	0	--	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	488	74	10	--	6	--	26	540
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	617	3	36	9	47	--	155	464
15 ppm sulfur and under	--	--	596	3	36	9	51	--	129	465
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	-1	--	9	2
Greater than 500 ppm sulfur	--	--	11	--	--	--	-3	--	17	-3
Residual Fuel Oil ⁶	--	--	105	42	--	--	-8	--	14	142
Less than 0.31 percent sulfur	--	--	--	--	--	--	5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	27	5	--	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	78	37	--	--	-15	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	1	--	--	1
Lubricants	--	--	21	1	-3	--	2	--	12	5
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	165	1	3	--	5	--	120	43
Marketable	--	--	130	1	3	--	5	--	120	8
Catalyst	--	--	35	--	--	--	--	--	--	35
Asphalt and Road Oil	--	--	28	16	12	--	11	--	1	43
Still Gas	--	--	120	--	--	--	--	--	--	120
Miscellaneous Products	--	--	16	--	--	--	0	--	0	15
Total	1,056	28	3,138	1,686	530	-16	-30	2,937	450	3,066

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	985	--	--	1,236	135	74	-2	2,420	12	0
Hydrocarbon Gas Liquids	66	0	56	35	29	--	-3	88	41	58
Natural Gas Liquids	66	0	47	35	29	--	-3	88	41	50
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	38	28	10	--	0	--	30	56
Normal Butane	11	--	5	7	14	--	-2	33	11	-5
Isobutane	13	--	4	0	6	--	0	28	0	-5
Natural Gasoline	31	0	--	--	--	--	0	28	0	3
Refinery Olefins	--	--	9	0	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	28	--	170	311	-41	14	429	19	7
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	28	--	20	153	24	-1	219	6	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	20	153	-15	-1	180	6	0
Fuel Ethanol	--	20	--	5	142	-1	0	159	6	0
Renewable Fuels Except Fuel Ethanol	--	8	--	15	11	-14	-1	21	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	121	--	--	4	106	5	7
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	29	158	-64	11	103	8	0
Reformulated	--	--	--	1	78	-1	5	72	0	0
Conventional	--	--	--	28	80	-63	6	32	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,074	163	64	76	6	--	349	3,021
Finished Motor Gasoline	--	--	1,609	3	11	66	-1	--	59	1,630
Reformulated	--	--	1,129	--	--	1	0	--	--	1,130
Conventional	--	--	480	3	11	64	-1	--	59	500
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	456	94	8	--	3	--	29	527
Kerosene	--	--	0	0	--	--	0	--	0	0
Distillate Fuel Oil	--	--	557	12	32	10	3	--	104	504
15 ppm sulfur and under	--	--	533	12	32	10	4	--	66	518
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	8	2
Greater than 500 ppm sulfur	--	--	14	0	--	--	0	--	31	-17
Residual Fuel Oil ⁶	--	--	114	44	--	--	-1	--	18	141
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	4	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	93	40	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	20	2	-2	--	1	--	10	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	153	1	2	--	0	--	129	26
Marketable	--	--	118	1	2	--	0	--	129	-8
Catalyst	--	--	35	--	--	--	--	--	--	35
Asphalt and Road Oil	--	--	26	4	13	--	0	--	1	42
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	14	0	--	--	0	--	0	14
Total	1,051	28	3,129	1,604	539	109	15	2,937	422	3,086

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, December 2017
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,743	57,893	193,457	24,677	30,652	308,422	9,949
Alaskan	--	--	--	--	--	15,883	512
Lower 48 States	--	--	--	--	--	292,539	9,437
Imports (PAD District of Entry)	25,697	84,646	77,386	10,853	42,664	241,246	7,782
Commercial	25,697	84,646	77,386	10,853	42,664	241,246	7,782
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	5,370	-18,348	25,601	-16,293	3,669	--	--
Adjustments ¹	239	-10,718	15,969	-810	-1,538	3,141	101
Disposition							
Stock Change ²	-1,537	-10,878	-14,349	-115	-2,772	-29,651	-956
Commercial	--	--	-15,902	--	--	-31,204	-1,007
SPR	--	--	1,553	--	--	1,553	50
Refinery Inputs	34,587	118,444	285,736	18,519	78,219	535,505	17,274
Exports	--	5,907	41,026	23	--	46,955	1,515
Ending Stocks							
Total	11,479	131,743	867,366	22,362	51,006	1,083,956	--
Commercial	11,479	131,743	204,535	22,362	51,006	421,125	--
Refinery	9,838	12,891	46,367	2,621	23,221	94,938	--
Tank Farms and Pipelines	1,641	118,852	158,168	19,741	22,792	321,194	--
Cushing, Oklahoma	--	48,701	--	--	--	48,701	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	4,993	4,993	--
SPR	--	--	662,831	--	--	662,831	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	61.1	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	35.0	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	251	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	25,697	84,646	77,386	10,853	42,664	241,246	7,782
PAD District of Processing	27,273	75,981	85,801	8,595	43,596	241,246	7,782

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, December 2017
(Thousand Barrels)

PAD District and State	December 2017		January-December 2017	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,743	56	18,094	50
Florida	163	5	1,923	5
New York	19	1	221	1
Pennsylvania	582	19	6,471	18
Virginia	0	0	4	0
West Virginia	979	32	9,475	26
PAD District 2	57,893	1,868	630,685	1,728
Illinois	701	23	8,313	23
Indiana	143	5	1,779	5
Kansas	2,868	93	35,596	98
Kentucky	317	10	2,477	7
Michigan	448	14	5,415	15
Missouri	8	0	110	0
Nebraska	165	5	2,277	6
North Dakota	36,047	1,163	388,508	1,064
Ohio	1,630	53	18,942	52
Oklahoma	15,434	498	165,695	454
South Dakota	108	3	1,307	4
Tennessee	22	1	266	1
PAD District 3	193,457	6,241	2,136,090	5,852
Alabama	520	17	6,732	18
Arkansas	436	14	5,168	14
Louisiana	4,097	132	50,102	137
Mississippi	1,457	47	18,138	50
New Mexico	17,237	556	172,766	473
Texas	121,929	3,933	1,281,583	3,511
Federal Offshore PAD District 3	47,781	1,541	601,602	1,648
PAD District 4	24,677	796	257,078	704
Colorado	13,334	430	128,151	351
Idaho	4	0	91	0
Montana	1,680	54	20,405	56
Utah	2,788	90	32,958	90
Wyoming	6,871	222	75,475	207
PAD District 5	30,652	989	359,679	985
Alaska	15,883	512	180,467	494
South Alaska	489	16	5,272	14
North Slope	15,394	497	175,195	480
Arizona	1	0	13	0
California	14,277	461	173,191	474
Nevada	22	1	286	1
Federal Offshore PAD District 5	469	15	5,721	16
U.S. Total	308,422	9,949	3,401,627	9,320

– = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	14	14,646	14,660	5,820	7,188	14,338	27,346
Natural Gas Liquids	14	14,646	14,660	5,820	7,188	14,338	27,346
Ethane	—	6,414	6,414	2,065	1,714	5,480	9,259
Propane	4	4,771	4,775	2,391	2,857	4,809	10,057
Normal Butane	10	1,402	1,412	583	1,268	1,671	3,522
Isobutane	—	713	713	390	325	791	1,506
Natural Gasoline	—	1,346	1,346	391	1,024	1,587	3,002

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	47,641	6,035	5,283	1,105	5,432	65,496	12,430	2,094	122,026
Natural Gas Liquids	47,641	6,035	5,283	1,105	5,432	65,496	12,430	2,094	122,026
Ethane	20,262	3,103	2,195	468	2,131	28,159	3,540	—	47,372
Propane	14,760	1,577	1,656	239	1,789	20,021	4,534	297	39,684
Normal Butane	4,984	-3,249	563	105	523	2,926	1,751	436	10,047
Isobutane	2,867	4,130	337	82	407	7,823	801	337	11,180
Natural Gasoline	4,768	474	532	211	582	6,567	1,804	1,024	13,743

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5	252	257	881	119	460	1,460
Natural Gas Liquids	5	252	257	881	119	460	1,460
Ethane	—	—	—	91	1	97	189
Propane	2	127	129	429	47	134	610
Normal Butane	3	40	43	146	19	82	247
Isobutane	—	16	16	151	3	69	223
Natural Gasoline	—	69	69	64	49	78	191

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	268	2,951	262	26	—	3,507	152	232	5,608
Natural Gas Liquids	268	2,951	262	26	—	3,507	152	232	5,608
Ethane	40	1,539	—	—	—	1,579	3	—	1,771
Propane	45	965	34	17	—	1,061	61	30	1,891
Normal Butane	86	225	92	5	—	408	32	149	879
Isobutane	32	193	29	—	—	254	10	27	530
Natural Gasoline	65	29	107	4	—	205	46	26	537

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	31,694	2,893	34,587	74,867	16,623	26,954	118,444
Hydrocarbon Gas Liquids	1,638	5	1,643	2,830	71	1,377	4,278
Natural Gas Liquids	1,638	5	1,643	2,830	71	1,377	4,278
Normal Butane	1,023	5	1,028	1,438	27	534	1,999
Isobutane	422	—	422	998	34	411	1,443
Natural Gasoline	193	—	193	394	10	432	836
Other Liquids	74,653	6,388	81,041	7,946	2,418	1,067	11,431
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	9,858	796	10,654	5,939	1,486	1,881	9,306
Hydrogen	103	5	108	762	306	217	1,285
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,755	791	10,546	5,154	1,180	1,664	7,998
Fuel Ethanol	9,530	737	10,267	4,897	1,139	1,599	7,635
Renewable Diesel Fuel	225	54	279	257	41	65	363
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	23	—	—	23
Unfinished Oils (net)	2,636	-68	2,568	-330	-29	329	-30
Naphthas and Lighter	784	-15	769	-26	-77	10	-93
Kerosene and Light Gas Oils	144	—	144	294	-46	-93	155
Heavy Gas Oils	1,602	-52	1,550	-219	96	385	262
Residuum	106	-1	105	-379	-2	27	-354
Motor Gasoline Blend.Comp. (MGBC)(net)	62,159	5,660	67,819	2,337	961	-1,143	2,155
Reformulated - RBOB	16,474	107	16,581	-1,398	1,150	877	629
Conventional	45,685	5,553	51,238	3,735	-189	-2,020	1,526
CBOB	39,414	5,532	44,946	3,719	-171	-2,174	1,374
GTAB	1,028	—	1,028	—	—	—	—
Other	5,243	21	5,264	16	-18	154	152
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	107,985	9,286	117,271	85,643	19,112	29,398	134,153

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,587	143,120	109,776	7,002	4,251	285,736	18,519	78,219	535,505
Hydrocarbon Gas Liquids	611	6,680	5,534	51	186	13,062	700	3,571	23,254
Natural Gas Liquids	611	6,680	5,534	51	186	13,062	700	3,571	23,254
Normal Butane	358	2,190	2,529	26	9	5,112	381	1,743	10,263
Isobutane	82	1,953	1,638	22	177	3,872	182	884	6,803
Natural Gasoline	171	2,537	1,367	3	—	4,078	137	944	6,188
Other Liquids	8,310	-42,934	-28,473	7,158	-416	-56,355	-970	9,256	44,403
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	2,092	3,333	2,492	1,155	242	9,314	1,133	6,598	37,005
Hydrogen	27	2,384	1,886	87	47	4,431	227	1,182	7,233
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,065	949	606	1,068	195	4,883	906	5,416	29,749
Fuel Ethanol	1,996	852	457	1,000	169	4,474	878	4,834	28,088
Renewable Diesel Fuel	69	97	149	68	26	409	28	577	1,656
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	23
Unfinished Oils (net)	90	-1,620	9,184	4	-153	7,505	188	2,945	13,176
Naphthas and Lighter	137	-6,735	-1,299	60	-70	-7,907	4	61	-7,166
Kerosene and Light Gas Oils	90	-973	996	-20	-15	78	-21	-1,038	-682
Heavy Gas Oils	-61	5,578	8,167	4	-68	13,620	151	3,124	18,707
Residuum	-76	510	1,320	-40	—	1,714	54	798	2,317
Motor Gasoline Blend.Comp. (MGBC)(net)	6,130	-44,647	-40,151	5,999	-505	-73,174	-2,291	-287	-5,778
Reformulated - RBOB	5,358	-11,126	-2,374	—	-849	-8,991	—	-126	8,093
Conventional	772	-33,521	-37,777	5,999	344	-64,183	-2,291	-161	-13,871
CBOB	956	-33,709	-36,550	5,983	291	-63,029	-2,047	-300	-19,056
GTAB	—	—	—	—	—	—	—	—	1,028
Other	-184	188	-1,227	16	53	-1,154	-244	139	4,157
Aviation Gasoline Blend. Comp. (net)	-2	—	2	—	—	0	—	—	0
Total Input	30,508	106,866	86,837	14,211	4,021	242,443	18,249	91,046	603,162

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	428	-59	369	871	-268	-365	238
Natural Gas Liquids	-64	-59	-123	-66	-456	-613	-1,135
Ethane	-	-	-	-	-	-	-
Propane	709	23	732	1,653	263	458	2,374
Normal Butane	-734	-62	-796	-1,695	-634	-997	-3,326
Isobutane	-39	-20	-59	-24	-85	-74	-183
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	492	-	492	937	188	248	1,373
Ethylene	30	-	30	-	-	-	-
Propylene	465	-	465	1,014	188	248	1,450
Butylene	-55	-	-55	-77	-	-	-77
Isobutylene	52	-	52	-	-	-	-
Finished Motor Gasoline	91,653	7,516	99,169	51,566	10,874	16,599	79,039
Reformulated	40,978	119	41,097	8,637	1,645	1,252	11,534
Reformulated Blended with Fuel Ethanol	40,978	119	41,097	8,637	1,645	1,252	11,534
Reformulated Other	-	-	-	-	-	-	-
Conventional	50,675	7,397	58,072	42,929	9,229	15,347	67,505
Conventional Blended with Fuel Ethanol	54,493	7,240	61,733	39,809	9,582	14,411	63,802
Ed55 and Lower	54,455	7,240	61,695	39,800	9,561	14,351	63,712
Greater than Ed55	38	-	38	9	21	60	90
Conventional Other	-3,818	157	-3,661	3,120	-353	936	3,703
Finished Aviation Gasoline	-	-	-	-	59	-	59
Kerosene-Type Jet Fuel	3,190	-	3,190	6,466	757	886	8,109
Kerosene	175	-	175	176	-	3	179
Distillate Fuel Oil	9,737	828	10,565	19,866	5,677	10,776	36,319
15 ppm sulfur and under	8,369	723	9,092	19,980	5,566	10,771	36,317
Greater than 15 ppm to 500 ppm sulfur	-333	89	-244	-	111	138	249
Greater than 500 ppm sulfur	1,701	16	1,717	-114	0	-133	-247
Residual Fuel Oil	1,360	9	1,369	1,274	227	82	1,583
Less than 0.31 percent sulfur	153	9	162	14	-	-	14
0.31 to 1.00 percent sulfur	564	-	564	208	80	-	288
Greater than 1.00 percent sulfur	643	-	643	1,052	147	82	1,281
Petrochemical Feedstocks	108	-	108	717	-	33	750
Naphtha for Petro. Feed. Use	108	-	108	471	-	-	471
Other Oils for Petro. Feed. Use	-	-	-	246	-	33	279
Special Naphthas	-	19	19	22	-	15	37
Lubricants	243	180	423	-	-	244	244
Waxes	-	-19	-19	-	-	28	28
Petroleum Coke	1,074	21	1,095	3,941	1,166	966	6,073
Marketable	354	-	354	2,876	988	739	4,603
Catalyst	720	21	741	1,065	178	227	1,470
Asphalt and Road Oil	315	674	989	2,250	1,342	381	3,973
Still Gas	1,202	52	1,254	2,733	643	1,074	4,450
Miscellaneous Products	65	28	93	316	124	61	501
Total	109,550	9,249	118,799	90,198	20,601	30,783	141,582
Processing Gain(-) or Loss(+) ¹	-1,565	37	-1,528	-4,555	-1,489	-1,385	-7,429

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	308	4,708	5,051	-27	-11	10,029	30	-87	10,579
Natural Gas Liquids	-180	1,098	1,974	-74	-11	2,807	6	-353	1,202
Ethane	1	142	42	—	—	185	—	—	185
Propane	337	2,685	2,637	16	50	5,725	257	1,182	10,270
Normal Butane	-341	-1,283	-767	-90	-61	-2,542	-246	-1,614	-8,524
Isobutane	-177	-446	62	—	—	-561	-5	79	-729
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	488	3,610	3,077	47	—	7,222	24	266	9,377
Ethylene	—	8	—	—	—	8	—	—	38
Propylene	486	3,791	3,114	47	—	7,438	4	269	9,626
Butylene	2	-160	-37	—	—	-195	20	-3	-310
Isobutylene	—	-29	—	—	—	-29	—	—	23
Finished Motor Gasoline	20,837	26,623	18,010	9,214	2,089	76,773	8,642	48,875	312,498
Reformulated	7,499	6,674	—	—	—	14,173	—	34,268	101,072
Reformulated Blended with Fuel Ethanol	7,499	6,674	—	—	—	14,173	—	34,268	101,072
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	13,338	19,949	18,010	9,214	2,089	62,600	8,642	14,607	211,426
Conventional Blended with Fuel Ethanol	12,163	1,652	4,528	9,890	1,684	29,917	8,771	13,801	178,024
Ed55 and Lower	12,151	1,652	4,528	9,878	1,684	29,893	8,758	13,799	177,857
Greater than Ed55	12	—	—	12	—	24	13	2	167
Conventional Other	1,175	18,297	13,482	-676	405	32,683	-129	806	33,402
Finished Aviation Gasoline	92	135	92	—	—	319	5	89	472
Kerosene-Type Jet Fuel	1,541	13,090	13,010	163	—	27,804	1,076	15,118	55,297
Kerosene	-2	156	38	23	—	215	2	24	595
Distillate Fuel Oil	6,398	46,067	38,412	2,525	1,746	95,148	6,553	19,129	167,714
15 ppm sulfur and under	6,319	44,160	31,423	2,472	1,746	86,120	6,531	18,481	156,541
Greater than 15 ppm to 500 ppm sulfur	79	328	2,949	10	—	3,366	21	296	3,688
Greater than 500 ppm sulfur	—	1,579	4,040	43	—	5,662	1	352	7,485
Residual Fuel Oil	341	871	3,806	-146	90	4,962	382	3,251	11,547
Less than 0.31 percent sulfur	202	-199	913	—	—	916	220	—	1,312
0.31 to 1.00 percent sulfur	—	-205	537	-146	19	205	13	844	1,914
Greater than 1.00 percent sulfur	139	1,275	2,356	—	71	3,841	149	2,407	8,321
Petrochemical Feedstocks	122	6,204	2,396	20	—	8,742	—	3	9,603
Naphtha for Petro. Feed. Use	107	4,496	1,199	20	—	5,822	—	3	6,404
Other Oils for Petro. Feed. Use	15	1,708	1,197	—	—	2,920	—	—	3,199
Special Naphthas	86	851	—	193	—	1,130	—	45	1,231
Lubricants	18	1,794	1,944	963	—	4,719	—	641	6,027
Waxes	—	48	33	27	—	108	—	—	117
Petroleum Coke	486	8,601	6,242	142	45	15,516	750	5,122	28,556
Marketable	226	6,380	4,799	128	—	11,533	536	4,027	21,053
Catalyst	260	2,221	1,443	14	45	3,983	214	1,095	7,503
Asphalt and Road Oil	210	388	930	713	25	2,266	1,050	858	9,136
Still Gas	776	5,878	4,426	188	82	11,350	700	3,720	21,474
Miscellaneous Products	123	1,137	626	38	32	1,956	77	481	3,108
Total	31,336	116,551	95,016	14,036	4,098	261,037	19,267	97,269	637,954
Processing Gain(-) or Loss(+) ¹	-828	-9,685	-8,179	175	-77	-18,594	-1,018	-6,223	-34,792

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	31,694	2,893	34,587	74,867	16,623	26,954	118,444
Hydrocarbon Gas Liquids	820	-	820	2,691	34	862	3,587
Natural Gas Liquids	820	-	820	2,691	34	862	3,587
Normal Butane	398	-	398	1,310	-	121	1,431
Isobutane	422	-	422	998	34	411	1,443
Natural Gasoline	-	-	-	383	-	330	713
Other Liquids	-14,900	1	-14,899	-37,284	-6,577	-12,772	-56,633
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	177	126	303	1,043	467	321	1,831
Hydrogen	103	5	108	762	306	217	1,285
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	74	121	195	258	161	104	523
Fuel Ethanol	74	99	173	168	147	98	413
Renewable Diesel Fuel	-	22	22	90	14	6	110
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	23	-	-	23
Unfinished Oils (net)	2,636	-68	2,568	-332	-29	329	-32
Naphthas and Lighter	784	-15	769	-26	-77	10	-93
Kerosene and Light Gas Oils	144	-	144	294	-46	-93	155
Heavy Gas Oils	1,602	-52	1,550	-219	96	385	262
Residuum	106	-1	105	-381	-2	27	-356
Motor Gasoline Blend.Comp. (MGBC)(net)	-17,713	-57	-17,770	-37,995	-7,015	-13,422	-58,432
Reformulated - RBOB	-11,130	-	-11,130	-8,880	-328	-237	-9,445
Conventional	-6,583	-57	-6,640	-29,115	-6,687	-13,185	-48,987
CBOB	-6,179	-78	-6,257	-29,126	-6,669	-13,347	-49,142
GTAB	-	-	-	-	-	-	-
Other	-404	21	-383	11	-18	162	155
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	17,614	2,894	20,508	40,274	10,080	15,044	65,398
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,022	94	1,117	2,406	537	871	3,814
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	886	4,013
Operable Utilization Rate (percent) ²	94.4	95.8	94.5	92.3	103.2	98.3	95.0
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	181	16	197	450	77	154	681
Catalytic Cracking	407	17	424	707	152	227	1,086
Catalytic Hydrocracking	39	-	39	194	56	66	315
Delayed and Fluid Coking	46	-	46	340	71	91	502
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.71	1.66	0.79	1.57	1.92	0.75	1.43
API Gravity, Weighted Average (degrees)	35.21	32.12	34.93	32.44	27.92	38.21	33.06
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	886	4,013
Operating	1,083	98	1,182	2,585	520	886	3,991
Idle	-	-	-	22	-	-	22
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,587	143,120	109,776	7,002	4,251	285,736	18,519	78,219	535,505
Hydrocarbon Gas Liquids	574	5,580	5,305	25	186	11,670	578	3,549	20,204
Natural Gas Liquids	574	5,580	5,305	25	186	11,670	578	3,549	20,204
Normal Butane	333	1,801	2,300	—	9	4,443	307	1,721	8,300
Isobutane	82	1,953	1,638	22	177	3,872	180	884	6,801
Natural Gasoline	159	1,826	1,367	3	—	3,355	91	944	5,103
Other Liquids	-9,032	-52,133	-31,114	-1,723	-1,517	-95,519	-5,022	-36,600	-208,673
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	276	2,445	2,208	136	116	5,181	503	1,439	9,257
Hydrogen	27	2,384	1,886	87	47	4,431	227	1,182	7,233
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	249	61	322	49	69	750	276	257	2,001
Fuel Ethanol	213	45	173	25	58	514	259	94	1,453
Renewable Diesel Fuel	36	16	149	24	11	236	17	163	548
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	23
Unfinished Oils (net)	90	-299	9,153	4	-153	8,795	188	2,945	14,464
Naphthas and Lighter	137	-6,735	-1,299	60	-70	-7,907	4	61	-7,166
Kerosene and Light Gas Oils	90	-973	994	-20	-15	76	-21	-1,038	-684
Heavy Gas Oils	-61	6,899	8,138	4	-68	14,912	151	3,124	19,999
Residuum	-76	510	1,320	-40	—	1,714	54	798	2,315
Motor Gasoline Blend.Comp. (MGBBC)(net)	-9,396	-54,279	-42,477	-1,863	-1,480	-109,495	-5,713	-40,984	-232,394
Reformulated - RBOB	-1,427	-15,313	-2,374	—	-849	-19,963	—	-30,378	-70,916
Conventional	-7,969	-38,966	-40,103	-1,863	-631	-89,532	-5,713	-10,606	-161,478
CBOB	-7,785	-33,597	-37,979	-1,853	-684	-81,898	-5,467	-10,740	-153,504
GTAB	—	—	—	—	—	—	—	—	—
Other	-184	-5,369	-2,124	-10	53	-7,634	-246	134	-7,974
Aviation Gasoline Blend. Comp. (net)	-2	—	2	—	—	0	—	—	0
Total Input to Refineries	13,129	96,567	83,967	5,304	2,920	201,887	14,075	45,168	347,036
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	694	4,647	3,673	203	137	9,354	591	2,683	17,559
Operable Capacity (daily average)	744	4,971	3,720	256	124	9,815	693	2,848	18,550
Operable Utilization Rate (percent) ²	93.3	93.5	98.7	79.3	111.0	95.3	85.3	94.2	94.7
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	146	665	584	34	27	1,456	88	394	2,815
Catalytic Cracking	182	1,346	1,119	18	32	2,697	157	720	5,084
Catalytic Hydrocracking	49	553	487	15	17	1,119	20	507	2,001
Delayed and Fluid Coking	32	800	555	25	—	1,411	61	483	2,503
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.64	1.64	1.37	1.67	0.69	1.45	1.31	1.43	1.40
API Gravity, Weighted Average (degrees)	39.17	31.90	31.22	31.47	40.50	32.33	33.78	27.91	32.01
Operable Capacity (daily average)	744	4,971	3,720	256	124	9,815	693	2,848	18,550
Operating	744	4,971	3,720	256	124	9,815	683	2,848	18,518
Idle	—	—	—	—	—	—	10	—	32
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	17,279	17,279

— = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	428	-59	369	871	-268	-365	238
Natural Gas Liquids	-64	-59	-123	-66	-456	-613	-1,135
Ethane	-	-	-	-	-	-	-
Propane	709	23	732	1,653	263	458	2,374
Normal Butane	-734	-62	-796	-1,695	-634	-997	-3,326
Isobutane	-39	-20	-59	-24	-85	-74	-183
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	492	-	492	937	188	248	1,373
Ethylene	30	-	30	-	-	-	-
Propylene	465	-	465	1,014	188	248	1,450
Butylene	-55	-	-55	-77	-	-	-77
Isobutylene	52	-	52	-	-	-	-
Finished Motor Gasoline	739	1,156	1,895	6,366	1,867	2,295	10,528
Reformulated	739	-	739	-	-	-	-
Reformulated Blended with Fuel Ethanol	739	-	739	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,156	1,156	6,366	1,867	2,295	10,528
Conventional Blended with Fuel Ethanol	-	989	989	1,710	1,474	1,008	4,192
Ed55 and Lower	-	989	989	1,710	1,474	1,008	4,192
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	167	167	4,656	393	1,287	6,336
Finished Aviation Gasoline	-	-	-	-	59	-	59
Kerosene-Type Jet Fuel	3,190	-	3,190	6,466	757	886	8,109
Kerosene	202	-	202	176	-	3	179
Distillate Fuel Oil	10,270	796	11,066	19,698	5,652	10,724	36,074
15 ppm sulfur and under	8,756	691	9,447	19,812	5,541	10,715	36,068
Greater than 15 ppm to 500 ppm sulfur	-5	89	84	-	111	33	144
Greater than 500 ppm sulfur	1,519	16	1,535	-114	0	-24	-138
Residual Fuel Oil	1,345	9	1,354	1,274	227	115	1,616
Less than 0.31 percent sulfur	152	9	161	14	-	-	14
0.31 to 1.00 percent sulfur	563	-	563	208	80	-	288
Greater than 1.00 percent sulfur	630	-	630	1,052	147	115	1,314
Petrochemical Feedstocks	108	-	108	717	-	33	750
Naphtha for Petro. Feed. Use	108	-	108	471	-	-	471
Other Oils for Petro. Feed. Use	-	-	-	246	-	33	279
Special Naphthas	-	19	19	22	-	15	37
Lubricants	243	180	423	-	-	244	244
Waxes	-	-19	-19	-	-	28	28
Petroleum Coke	1,074	21	1,095	3,941	1,166	966	6,073
Marketable	354	-	354	2,876	988	739	4,603
Catalyst	720	21	741	1,065	178	227	1,470
Asphalt and Road Oil	315	674	989	2,248	1,342	348	3,938
Still Gas	1,202	52	1,254	2,733	643	1,074	4,450
Miscellaneous Products	65	28	93	316	124	61	501
Total	19,181	2,857	22,038	44,828	11,569	16,427	72,824
Processing Gain(-) or Loss(+) ¹	-1,567	37	-1,530	-4,554	-1,489	-1,383	-7,426

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	308	4,708	5,051	-27	-11	10,029	30	-87	10,579
Natural Gas Liquids	-180	1,098	1,974	-74	-11	2,807	6	-353	1,202
Ethane	1	142	42	—	—	185	—	—	185
Propane	337	2,685	2,637	16	50	5,725	257	1,182	10,270
Normal Butane	-341	-1,283	-767	-90	-61	-2,542	-246	-1,614	-8,524
Isobutane	-177	-446	62	—	—	-561	-5	79	-729
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	488	3,610	3,077	47	—	7,222	24	266	9,377
Ethylene	—	8	—	—	—	8	—	—	38
Propylene	486	3,791	3,114	47	—	7,438	4	269	9,626
Butylene	2	-160	-37	—	—	-195	20	-3	-310
Isobutylene	—	-29	—	—	—	-29	—	—	23
Finished Motor Gasoline	3,492	15,084	15,171	353	1,004	35,104	4,481	3,409	55,417
Reformulated	—	—	—	—	—	—	—	627	1,366
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	627	1,366
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,492	15,084	15,171	353	1,004	35,104	4,481	2,782	54,051
Conventional Blended with Fuel Ethanol	2,076	443	1,698	265	565	5,047	2,615	280	13,123
Ed55 and Lower	2,073	443	1,698	265	565	5,044	2,615	280	13,120
Greater than Ed55	3	—	—	—	—	3	—	—	3
Conventional Other	1,416	14,641	13,473	88	439	30,057	1,866	2,502	40,928
Finished Aviation Gasoline	92	135	92	—	—	319	5	89	472
Kerosene-Type Jet Fuel	1,541	13,091	13,007	163	—	27,802	1,029	15,161	55,291
Kerosene	-2	156	35	23	—	212	2	2	597
Distillate Fuel Oil	6,363	45,771	38,418	2,482	1,731	94,765	6,587	18,694	167,186
15 ppm sulfur and under	6,284	44,079	31,429	2,429	1,731	85,952	6,565	18,065	156,097
Greater than 15 ppm to 500 ppm sulfur	79	328	2,949	10	—	3,366	21	296	3,911
Greater than 500 ppm sulfur	—	1,364	4,040	43	—	5,447	1	333	7,178
Residual Fuel Oil	341	2,406	3,775	-146	90	6,466	382	3,251	13,069
Less than 0.31 percent sulfur	202	15	913	—	—	1,130	220	—	1,525
0.31 to 1.00 percent sulfur	—	116	537	-146	19	526	13	844	2,234
Greater than 1.00 percent sulfur	139	2,275	2,325	—	71	4,810	149	2,407	9,310
Petrochemical Feedstocks	122	6,204	2,396	20	—	8,742	—	3	9,603
Naphtha for Petro. Feed. Use	107	4,496	1,199	20	—	5,822	—	3	6,404
Other Oils for Petro. Feed. Use	15	1,708	1,197	—	—	2,920	—	—	3,199
Special Naphthas	86	851	—	193	—	1,130	—	45	1,231
Lubricants	18	1,794	1,944	963	—	4,719	—	641	6,027
Waxes	—	48	33	27	—	108	—	—	117
Petroleum Coke	486	8,601	6,242	142	45	15,516	750	5,122	28,556
Marketable	226	6,380	4,799	128	—	11,533	536	4,027	21,053
Catalyst	260	2,221	1,443	14	45	3,983	214	1,095	7,503
Asphalt and Road Oil	210	388	930	713	25	2,266	1,050	858	9,101
Still Gas	776	5,878	4,426	188	82	11,350	700	3,720	21,474
Miscellaneous Products	123	1,137	626	38	32	1,956	77	481	3,108
Total	13,956	106,252	92,146	5,132	2,998	220,484	15,093	51,389	381,828
Processing Gain(-) or Loss(+) ¹	-827	-9,685	-8,179	172	-78	-18,597	-1,018	-6,221	-34,792

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	818	5	823	139	37	515	691
Natural Gas Liquids	818	5	823	139	37	515	691
Normal Butane	625	5	630	128	27	413	568
Isobutane	—	—	—	—	—	—	—
Natural Gasoline	193	—	193	11	10	102	123
Other Liquids	89,553	6,387	95,940	45,230	8,995	13,839	68,064
Oxygenates/Renewables	9,681	670	10,351	4,896	1,019	1,560	7,475
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,681	670	10,351	4,896	1,019	1,560	7,475
Fuel Ethanol	9,456	638	10,094	4,729	992	1,501	7,222
Renewable Diesel Fuel	225	32	257	167	27	59	253
Other Renewable Fuels	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	2	—	—	2
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	2	—	—	2
Motor Gasoline Blend.Comp. (MGBC)(net)	79,872	5,717	85,589	40,332	7,976	12,279	60,587
Reformulated - RBOB	27,604	107	27,711	7,482	1,478	1,114	10,074
Conventional	52,268	5,610	57,878	32,850	6,498	11,165	50,513
CBOB	45,593	5,610	51,203	32,845	6,498	11,173	50,516
GTAB	1,028	—	1,028	—	—	—	—
Other	5,647	—	5,647	5	—	-8	-3
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	90,371	6,392	96,763	45,369	9,032	14,354	68,755

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	37	1,100	229	26	—	1,392	122	22	3,050
Natural Gas Liquids	37	1,100	229	26	—	1,392	122	22	3,050
Normal Butane	25	389	229	26	—	669	74	22	1,963
Isobutane	—	—	—	—	—	—	2	—	2
Natural Gasoline	12	711	—	—	—	723	46	—	1,085
Other Liquids	17,342	9,199	2,641	8,881	1,101	39,164	4,052	45,856	253,076
Oxygenates/Renewables	1,816	888	284	1,019	126	4,133	630	5,159	27,748
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,816	888	284	1,019	126	4,133	630	5,159	27,748
Fuel Ethanol	1,783	807	284	975	111	3,960	619	4,740	26,635
Renewable Diesel Fuel	33	81	—	44	15	173	11	414	1,108
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Unfinished Oils (net)	—	-1,321	31	—	—	-1,290	—	—	-1,288
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	2	—	—	2	—	—	2
Heavy Gas Oils	—	-1,321	29	—	—	-1,292	—	—	-1,292
Residuum	—	—	—	—	—	—	—	—	2
Motor Gasoline Blend.Comp. (MGBC)(net)	15,526	9,632	2,326	7,862	975	36,321	3,422	40,697	226,616
Reformulated - RBOB	6,785	4,187	—	—	—	10,972	—	30,252	79,009
Conventional	8,741	5,445	2,326	7,862	975	25,349	3,422	10,445	147,607
CBOB	8,741	-112	1,429	7,836	975	18,869	3,420	10,440	134,448
GTAB	—	—	—	—	—	—	—	—	1,028
Other	—	5,557	897	26	—	6,480	2	5	12,131
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	17,379	10,299	2,870	8,907	1,101	40,556	4,174	45,878	256,126

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	90,914	6,360	97,274	45,200	9,007	14,304	68,511
Reformulated	40,239	119	40,358	8,637	1,645	1,252	11,534
Reformulated Blended with Fuel Ethanol	40,239	119	40,358	8,637	1,645	1,252	11,534
Reformulated Other	-	-	-	-	-	-	-
Conventional	50,675	6,241	56,916	36,563	7,362	13,052	56,977
Conventional Blended with Fuel Ethanol	54,493	6,251	60,744	38,099	8,108	13,403	59,610
Ed55 and Lower	54,455	6,251	60,706	38,090	8,087	13,343	59,520
Greater than Ed55	38	-	38	9	21	60	90
Conventional Other	-3,818	-10	-3,828	-1,536	-746	-351	-2,633
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-	-	-	-	-	-
Kerosene	-27	-	-27	-	-	-	-
Distillate Fuel Oil	-533	32	-501	168	25	52	245
15 ppm sulfur and under	-387	32	-355	168	25	56	249
Greater than 15 ppm to 500 ppm sulfur	-328	-	-328	-	-	105	105
Greater than 500 ppm sulfur	182	-	182	-	-	-109	-109
Residual Fuel Oil	15	-	15	-	-	-33	-33
Less than 0.31 percent sulfur	1	-	1	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	13	-	13	-	-	-33	-33
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	2	-	33	35
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	90,369	6,392	96,761	45,370	9,032	14,356	68,758
Processing Gain(-) or Loss(+) ¹	2	0	2	-1	0	-2	-3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,345	11,539	2,839	8,861	1,085	41,669	4,161	45,466	257,081
Reformulated	7,499	6,674	-	-	-	14,173	-	33,641	99,706
Reformulated Blended with Fuel Ethanol	7,499	6,674	-	-	-	14,173	-	33,641	99,706
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	9,846	4,865	2,839	8,861	1,085	27,496	4,161	11,825	157,375
Conventional Blended with Fuel Ethanol	10,087	1,209	2,830	9,625	1,119	24,870	6,156	13,521	164,901
Ed55 and Lower	10,078	1,209	2,830	9,613	1,119	24,849	6,143	13,519	164,737
Greater than Ed55	9	-	-	12	-	21	13	2	164
Conventional Other	-241	3,656	9	-764	-34	2,626	-1,995	-1,696	-7,526
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-1	3	-	-	2	47	-43	6
Kerosene	-	-	3	-	-	3	-	22	-2
Distillate Fuel Oil	35	296	-6	43	15	383	-34	435	528
15 ppm sulfur and under	35	81	-6	43	15	168	-34	416	444
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	-223
Greater than 500 ppm sulfur	-	215	-	-	-	215	-	19	307
Residual Fuel Oil	-	-1,535	31	-	-	-1,504	-	-	-1,522
Less than 0.31 percent sulfur	-	-214	-	-	-	-214	-	-	-213
0.31 to 1.00 percent sulfur	-	-321	-	-	-	-321	-	-	-320
Greater than 1.00 percent sulfur	-	-1,000	31	-	-	-969	-	-	-989
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-	-	-	-	-	35
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,380	10,299	2,870	8,904	1,100	40,553	4,174	45,880	256,126
Processing Gain(-) or Loss(+) ¹	-1	0	0	3	1	3	0	-2	0

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	9,172	666	9,838	9,197	2,036	1,658	12,891
Petroleum Products	14,234	2,428	16,662	30,296	8,066	12,444	50,806
Hydrocarbon Gas Liquids	845	38	883	3,026	584	1,461	5,071
Natural Gas Liquids	513	38	551	2,345	555	1,436	4,336
Ethane	—	—	—	—	—	—	—
Propane	124	3	127	719	48	937	1,704
Normal Butane	251	24	275	1,298	448	100	1,846
Isobutane	138	11	149	260	59	166	485
Natural Gasoline	—	—	—	68	—	233	301
Refinery Olefins	332	0	332	681	29	25	735
Ethylene	—	—	—	—	—	—	—
Propylene	154	0	154	566	29	25	620
Butylene	148	0	148	115	0	0	115
Isobutylene	30	0	30	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	52	93	145	95	48	32	175
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	52	93	145	48	48	32	128
Fuel Ethanol	52	89	141	30	31	26	87
Renewable Diesel Fuel	—	4	4	18	17	6	41
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	47	—	—	47
Unfinished Oils	4,122	418	4,540	8,313	551	4,266	13,130
Naphthas and Lighter	977	241	1,218	2,567	158	1,220	3,945
Kerosene and Light Gas Oils	571	—	571	1,832	176	663	2,671
Heavy Gas Oils	1,703	169	1,872	2,599	198	1,742	4,539
Residuum	871	8	879	1,315	19	641	1,975
Motor Gasoline Blending Components (MGBC)	4,996	305	5,301	8,140	2,039	3,311	13,490
Reformulated - RBOB	1,954	—	1,954	1,141	30	—	1,171
Conventional	3,042	305	3,347	6,999	2,009	3,311	12,319
CBOB	537	255	792	2,930	1,220	2,437	6,587
GTAB	—	—	—	—	—	—	—
Other	2,505	50	2,555	4,069	789	874	5,732
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	49	49	1,121	93	261	1,475
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	49	49	1,121	93	261	1,475
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	49	49	1,121	93	261	1,475
Finished Aviation Gasoline	—	—	—	—	85	—	85
Kerosene-Type Jet Fuel	718	—	718	1,457	258	289	2,004
Kerosene	94	3	97	83	—	13	96
Distillate Fuel Oil	2,129	233	2,362	4,055	1,255	1,610	6,920
15 ppm sulfur and under	1,856	99	1,955	3,924	1,069	1,473	6,466
Greater than 15 ppm to 500 ppm sulfur	29	118	147	—	104	89	193
Greater than 500 ppm sulfur	244	16	260	131	82	48	261
Residual Fuel Oil	629	25	654	866	223	57	1,146
Less than 0.31 percent sulfur	91	23	114	108	—	—	108
0.31 to 1.00 percent sulfur	90	2	92	113	62	—	175
Greater than 1.00 percent sulfur	448	—	448	645	161	57	863
Petrochemical Feedstocks	98	—	98	488	—	—	488
Naphtha for Petro. Feed. Use	98	—	98	352	—	—	352
Other Oils for Petro. Feed. Use	—	—	—	136	—	—	136
Special Naphthas	—	26	26	41	—	16	57
Lubricants	364	226	590	—	—	470	470
Waxes	—	527	527	—	—	63	63
Petroleum Coke	—	—	—	281	1,129	107	1,517
Marketable	—	—	—	281	1,129	107	1,517
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	176	467	643	2,234	1,777	483	4,494
Miscellaneous Products	11	18	29	96	24	5	125
Total Stocks, All Oils	23,406	3,094	26,500	39,493	10,102	14,102	63,697

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,856	26,301	16,616	1,274	320	46,367	2,621	23,221	94,938
Petroleum Products	10,322	60,656	48,726	3,997	1,417	125,118	10,834	50,511	253,931
Hydrocarbon Gas Liquids	2,087	1,961	3,851	16	57	7,972	442	1,313	15,681
Natural Gas Liquids	1,190	1,668	2,641	15	57	5,571	427	1,285	12,170
Ethane	184	—	—	—	—	184	—	—	184
Propane	425	456	324	2	5	1,212	58	119	3,220
Normal Butane	270	960	1,294	8	27	2,559	258	774	5,712
Isobutane	251	230	823	5	9	1,318	101	389	2,442
Natural Gasoline	60	22	200	—	16	298	10	3	612
Refinery Olefins	897	293	1,210	1	0	2,401	15	28	3,511
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	889	62	520	1	0	1,472	0	27	2,273
Butylene	8	231	690	0	0	929	15	1	1,208
Isobutylene	0	0	0	0	0	0	0	0	30
Oxygenates/Renewable Fuels/Other Hydrocarbons	38	75	191	77	11	392	108	190	1,010
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	38	75	191	77	11	392	108	190	963
Fuel Ethanol	30	51	84	29	9	203	102	31	564
Renewable Diesel Fuel	8	24	107	48	2	189	6	159	399
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	47
Unfinished Oils	3,262	20,986	14,631	770	685	40,334	2,751	18,827	79,582
Naphthas and Lighter	773	6,311	2,162	161	230	9,637	563	3,140	18,503
Kerosene and Light Gas Oils	1,077	3,518	2,378	193	158	7,324	550	4,349	15,465
Heavy Gas Oils	776	9,410	8,003	334	297	18,820	1,160	9,071	35,462
Residuum	636	1,747	2,088	82	—	4,553	478	2,267	10,152
Motor Gasoline Blending Components (MGBC)	2,359	12,889	12,873	372	274	28,767	3,150	14,635	65,343
Reformulated - RBOB	219	1,110	335	—	—	1,664	—	5,508	10,297
Conventional	2,140	11,779	12,538	372	274	27,103	3,150	9,127	55,046
CBOB	988	3,973	6,462	291	15	11,729	1,594	2,297	22,999
GTAB	—	—	—	—	—	—	—	—	—
Other	1,152	7,806	6,076	81	259	15,374	1,556	6,830	32,047
Aviation Gasoline Blending Components	8	—	7	—	—	15	—	—	15
Finished Motor Gasoline	443	1,285	1,803	33	83	3,647	786	575	6,532
Reformulated	—	—	—	—	—	—	—	16	16
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	16	16
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	443	1,285	1,803	33	83	3,647	786	559	6,516
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	74	—	74
Ed55 and Lower	—	—	—	—	—	—	74	—	74
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	443	1,285	1,803	33	83	3,647	712	559	6,442
Finished Aviation Gasoline	43	165	174	—	—	382	9	144	620
Kerosene-Type Jet Fuel	292	3,593	2,210	70	—	6,165	292	3,742	12,921
Kerosene	31	7	113	5	—	156	2	3	354
Distillate Fuel Oil	994	7,586	6,973	420	162	16,135	1,983	5,638	33,038
15 ppm sulfur and under	894	6,653	5,338	323	162	13,370	1,766	4,877	28,434
Greater than 15 ppm to 500 ppm sulfur	100	202	873	4	—	1,179	151	239	1,909
Greater than 500 ppm sulfur	—	731	762	93	—	1,586	66	522	2,695
Residual Fuel Oil	124	2,155	1,275	40	33	3,627	215	2,364	8,006
Less than 0.31 percent sulfur	4	—	180	—	—	184	32	—	438
0.31 to 1.00 percent sulfur	—	194	64	40	4	302	4	413	986
Greater than 1.00 percent sulfur	120	1,961	1,031	—	29	3,141	179	1,951	6,582
Petrochemical Feedstocks	144	1,628	518	23	—	2,313	—	2	2,901
Naphtha for Petro. Feed. Use	36	980	358	23	—	1,397	—	2	1,849
Other Oils for Petro. Feed. Use	108	648	160	—	—	916	—	—	1,052
Special Naphthas	85	782	—	126	—	993	—	45	1,121
Lubricants	54	2,654	2,325	926	—	5,959	—	720	7,739
Waxes	—	102	104	61	—	267	—	—	857
Petroleum Coke	48	4,335	1,180	—	—	5,563	83	1,356	8,519
Marketable	48	4,335	1,180	—	—	5,563	83	1,356	8,519
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	276	216	415	1,057	94	2,058	997	839	9,031
Miscellaneous Products	34	237	83	1	18	373	16	118	661
Total Stocks, All Oils	12,178	86,957	65,342	5,271	1,737	171,485	13,455	73,732	348,869

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, December 2017

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1.2	-2.1	1.0	1.2	-1.6	-1.3	0.2
Finished Motor Gasoline ¹	51.0	39.4	50.1	55.1	51.5	53.7	54.3
Finished Aviation Gasoline ²	—	—	—	—	0.4	—	0.1
Kerosene-Type Jet Fuel	9.3	—	8.6	8.6	4.5	3.2	6.8
Kerosene	0.6	—	0.5	0.2	—	0.0	0.2
Distillate Fuel Oil ³	29.8	27.4	29.6	26.0	33.4	39.0	30.0
Residual Fuel Oil	3.9	0.3	3.6	1.7	1.3	0.4	1.4
Naphtha for Petro. Feed. Use	0.3	—	0.3	0.6	—	—	0.4
Other Oils for Petro. Feed. Use	—	—	—	0.3	—	0.1	0.2
Special Naphthas	—	0.7	0.1	0.0	—	0.1	0.0
Lubricants	0.7	6.4	1.1	—	—	0.9	0.2
Waxes	—	-0.7	-0.1	—	—	0.1	0.0
Petroleum Coke	3.1	0.7	2.9	5.2	6.9	3.5	5.1
Asphalt and Road Oil	0.9	23.8	2.7	3.0	7.9	1.3	3.3
Still Gas	3.5	1.8	3.4	3.6	3.8	3.9	3.7
Miscellaneous Products	0.2	1.0	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.6	1.3	-4.1	-6.1	-8.8	-5.0	-6.2

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1.4	3.2	4.2	-0.4	-0.3	3.4	0.2	-0.1	1.9
Finished Motor Gasoline ¹	55.8	43.9	43.2	30.5	54.0	44.3	49.4	49.5	47.8
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	7.1	9.0	10.8	2.3	—	9.3	5.4	18.4	9.9
Kerosene	0.0	0.1	0.0	0.3	—	0.1	0.0	0.0	0.1
Distillate Fuel Oil ³	29.2	31.5	31.7	34.7	41.5	31.6	34.7	22.5	29.9
Residual Fuel Oil	1.6	1.7	3.1	-2.1	2.2	2.2	2.0	4.0	2.4
Naphtha for Petro. Feed. Use	0.5	3.1	1.0	0.3	—	2.0	—	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.2	1.0	—	—	1.0	—	—	0.6
Special Naphthas	0.4	0.6	—	2.7	—	0.4	—	0.1	0.2
Lubricants	0.1	1.2	1.6	13.6	—	1.6	—	0.8	1.1
Waxes	—	0.0	0.0	0.4	—	0.0	—	—	0.0
Petroleum Coke	2.2	5.9	5.2	2.0	1.1	5.2	4.0	6.2	5.1
Asphalt and Road Oil	1.0	0.3	0.8	10.1	0.6	0.8	5.6	1.0	1.6
Still Gas	3.6	4.1	3.7	2.7	2.0	3.8	3.7	4.5	3.9
Miscellaneous Products	0.6	0.8	0.5	1.0	1.0	0.7	0.4	0.6	0.6
Processing Gain(-) or Loss(+) ⁴	-3.8	-6.7	-6.8	2.5	-1.9	-6.3	-5.4	-7.6	-6.3

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, December 2017
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	—	—	1,683	1,683
Connecticut	—	—	—	—
Delaware	—	—	—	—
Florida	—	—	517	517
Georgia	—	—	140	140
Maine	—	—	—	—
Maryland	—	—	—	—
Massachusetts	—	—	—	—
New Hampshire	—	—	—	—
New Jersey	—	—	522	522
New York	—	—	202	202
North Carolina	—	—	—	—
Pennsylvania	—	—	—	—
Rhode Island	—	—	—	—
South Carolina	—	—	225	225
Vermont	—	—	2	2
Virginia	—	—	75	75
West Virginia	—	—	—	—
PAD District 2	—	108	—	108
Illinois	—	—	—	—
Indiana	—	—	—	—
Michigan	—	—	—	—
Minnesota	—	106	—	106
North Dakota	—	2	—	2
Ohio	—	—	—	—
Wisconsin	—	—	—	—
PAD District 3	326	—	2,386	2,712
Alabama	—	—	—	—
Louisiana	196	—	317	513
Mississippi	—	—	—	—
New Mexico	—	—	—	—
Texas	130	—	2,069	2,199
PAD District 4	—	—	—	—
Idaho	—	—	—	—
Montana	—	—	—	—
PAD District 5	—	152	1,153	1,305
Alaska	—	—	—	—
California	—	—	818	818
Hawaii	—	—	—	—
Oregon	—	—	—	—
Washington	—	152	335	487
U.S. Total	326	260	5,222	5,808

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	27,273	75,981	85,801	8,595	43,596	241,246	7,782
Hydrocarbon Gas Liquids	1,852	3,366	177	427	1,306	7,128	230
Natural Gas Liquids	1,550	2,906	—	427	1,305	6,188	200
Ethane	—	—	—	—	—	—	—
Propane	1,488	2,367	—	414	877	5,146	166
Normal Butane	34	293	—	4	401	732	24
Isobutane	28	242	—	9	27	306	10
Natural Gasoline	—	4	—	—	—	4	0
Refinery Olefins	302	460	177	—	1	940	30
Ethylene	—	—	—	—	—	—	—
Propylene	302	398	—	—	1	701	23
Butylene	—	62	177	—	—	239	8
Isobutylene	—	—	—	—	—	—	—
Other Liquids	13,628	623	17,599	12	3,599	35,461	1,144
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	445	25	298	4	329	1,101	36
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	294	—	—	294	9
Methyl Tertiary Butyl Ether (MTBE)	—	—	114	—	—	114	4
Other Oxygenates ³	—	—	180	—	—	180	6
Renewable Fuels (including Fuel Ethanol)	445	25	—	4	329	803	26
Fuel Ethanol	—	—	—	—	—	—	—
Biomass-Based Diesel Fuel	445	25	—	4	30	504	16
Other Renewable Diesel Fuel	—	—	—	—	299	299	10
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	4	—	—	4	0
Unfinished Oils ¹	1,788	123	17,212	—	2,918	22,041	711
Naphthas and Lighter	—	—	320	—	—	320	10
Kerosene and Lighter Gas Oils	—	—	168	—	—	168	5
Heavy Gas Oils	1,375	123	13,728	—	2,697	17,923	578
Residuum	413	—	2,996	—	221	3,630	117
Motor Gasoline Blend Comp. (MGBC)	11,395	475	89	8	352	12,319	397
Reformulated - RBOB	5,183	62	—	—	—	5,245	169
Conventional	6,212	413	89	8	352	7,074	228
CBOB	778	62	—	—	352	1,192	38
GTAB	605	—	—	—	—	605	20
Other	4,829	351	89	8	—	5,277	170
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	12,836	894	5,938	114	4,325	24,107	778
Finished Motor Gasoline	973	—	—	—	27	1,000	32
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	973	—	—	—	27	1,000	32
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	973	—	—	—	27	1,000	32
Finished Aviation Gasoline	30	3	—	—	2	35	1
Kerosene-Type Jet Fuel	2,363	—	—	—	2,305	4,668	151
Bonded Aircraft Fuel	154	—	—	—	1,111	1,265	41
Other	2,209	—	—	—	1,194	3,403	110
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	7,272	186	1,109	82	99	8,748	282
15 ppm sulfur and under	5,234	171	—	82	99	5,586	180
Bonded	—	—	—	—	—	—	—
Other	5,234	171	—	82	99	5,586	180
Greater than 15 ppm to 500 ppm sulfur	331	—	—	—	—	331	11
Bonded	—	—	—	—	—	—	—
Other	331	—	—	—	—	331	11
Greater than 500 ppm to 2000 ppm sulfur	1,514	—	278	—	—	1,792	58
Bonded	—	—	—	—	—	—	—
Other	1,514	—	278	—	—	1,792	58
Greater than 2000 ppm	193	15	831	—	—	1,039	34
Bonded	—	—	—	—	—	—	—
Other	193	15	831	—	—	1,039	34
Residual Fuel Oil	1,683	108	2,712	—	1,305	5,808	187
Less than 0.31 percent sulfur	—	—	326	—	—	326	11
0.31 to 1.00 percent sulfur	—	108	—	—	152	260	8
Greater than 1.00 percent sulfur	1,683	—	2,386	—	1,153	5,222	168
Petrochemical Feedstocks	4	156	381	—	—	541	17
Naphtha for Petro. Feed. Use	4	82	365	—	—	451	15
Other Oils for Petro. Feed. Use	—	74	16	—	—	90	3
Special Naphthas	—	42	506	—	—	548	18
Lubricants	114	207	890	1	25	1,237	40
Waxes	27	1	44	—	38	110	4
Petroleum Coke (Marketable)	—	14	296	—	20	330	11
Asphalt and Road Oil	370	175	—	30	504	1,079	35
Miscellaneous Products	—	2	—	1	—	3	0
Total	55,589	80,864	109,515	9,148	52,826	307,942	9,934

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-December 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	343,977	862,893	1,126,843	99,691	454,384	2,887,788	7,912
Hydrocarbon Gas Liquids	17,599	30,506	4,286	4,046	12,821	69,258	190
Natural Gas Liquids	13,713	25,404	2,733	4,046	12,819	58,715	161
Ethane	—	—	—	—	—	—	—
Propane	12,436	20,541	14	3,736	10,154	46,881	128
Normal Butane	607	2,361	—	101	2,503	5,572	15
Isobutane	670	2,451	30	209	162	3,522	10
Natural Gasoline	—	51	2,689	—	—	2,740	8
Refinery Olefins	3,886	5,102	1,553	—	2	10,543	29
Ethylene	—	—	—	—	—	—	—
Propylene	3,879	4,229	—	—	2	8,110	22
Butylene	7	873	1,553	—	—	2,433	7
Isobutylene	—	—	—	—	—	—	—
Other Liquids	221,540	4,396	181,841	419	62,176	470,372	1,289
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	6,399	543	5,673	53	7,333	20,001	55
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	3,841	—	—	3,841	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	2,107	—	—	2,107	6
Other Oxygenates ³	—	—	1,734	—	—	1,734	5
Renewable Fuels (including Fuel Ethanol)	6,397	428	1,716	53	7,333	15,927	44
Fuel Ethanol	100	—	—	—	1,724	1,824	5
Biomass-Based Diesel Fuel	6,297	428	1,716	53	880	9,374	26
Other Renewable Diesel Fuel	—	—	—	—	4,729	4,729	13
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	2	115	116	—	—	233	1
Unfinished Oils ¹	23,092	123	162,440	—	44,188	229,843	630
Naphthas and Lighter	4,627	—	3,673	—	1,244	9,544	26
Kerosene and Lighter Gas Oils	—	—	1,193	—	—	1,193	3
Heavy Gas Oils	13,236	123	118,563	—	37,170	169,092	463
Residuum	5,229	—	39,011	—	5,774	50,014	137
Motor Gasoline Blend Comp. (MGBC)	192,049	3,730	13,728	366	10,655	220,528	604
Reformulated - RBOB	76,360	320	—	—	268	76,948	211
Conventional	115,689	3,410	13,728	366	10,387	143,580	393
CBOB	10,004	369	—	—	5,154	15,527	43
GTAB	29,994	—	983	—	161	31,138	85
Other	75,691	3,041	12,745	366	5,072	96,915	266
Aviation Gasoline Blend Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	119,050	9,441	60,656	1,256	59,493	249,896	685
Finished Motor Gasoline	9,314	—	1,187	—	1,223	11,724	32
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	9,314	—	1,187	—	1,223	11,724	32
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	9,314	—	1,187	—	1,223	11,724	32
Finished Aviation Gasoline	75	27	—	9	23	134	0
Kerosene-Type Jet Fuel	24,131	5	125	156	34,380	58,797	161
Bonded Aircraft Fuel	2,823	—	—	—	10,867	13,690	38
Other	21,308	5	125	156	23,513	45,107	124
Kerosene	1,112	—	—	—	55	1,167	3
Distillate Fuel Oil	44,019	673	4,487	605	4,429	54,213	149
15 ppm sulfur and under	30,730	584	—	605	4,331	36,250	99
Bonded	—	—	—	—	—	—	—
Other	30,730	584	—	605	4,331	36,250	99
Greater than 15 ppm to 500 ppm sulfur	759	—	—	—	—	759	2
Bonded	—	—	—	—	—	—	—
Other	759	—	—	—	—	759	2
Greater than 500 ppm to 2000 ppm sulfur	12,062	12	2,792	—	98	14,964	41
Bonded	—	—	—	—	—	—	—
Other	12,062	12	2,792	—	98	14,964	41
Greater than 2000 ppm	468	77	1,695	—	—	2,240	6
Bonded	—	—	—	—	—	—	—
Other	468	77	1,695	—	—	2,240	6
Residual Fuel Oil	27,391	956	24,124	—	16,117	68,588	188
Less than 0.31 percent sulfur	1,209	—	2,903	—	—	4,112	11
0.31 to 1.00 percent sulfur	3,656	543	1,594	—	1,502	7,295	20
Greater than 1.00 percent sulfur	22,526	413	19,627	—	14,615	57,181	157
Petrochemical Feedstocks	305	1,771	13,177	—	442	15,695	43
Naphtha for Petro. Feed. Use	305	892	9,765	—	410	11,372	31
Other Oils for Petro. Feed. Use	—	879	3,412	—	32	4,323	12
Special Naphthas	—	537	4,797	—	45	5,379	15
Lubricants	2,481	2,330	9,619	1	554	14,985	41
Waxes	863	75	402	—	411	1,751	5
Petroleum Coke (Marketable)	217	265	2,696	—	316	3,494	10
Asphalt and Road Oil	9,142	2,796	—	472	1,495	13,905	38
Miscellaneous Products	—	6	42	13	3	64	0
Total	702,166	907,236	1,373,626	105,412	588,874	3,677,314	10,075

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	81,874	—	—	4,695	—	—	—	—	834	834
Algeria	951	—	—	3,637	—	—	—	—	—	—
Angola	5,191	—	—	—	—	—	—	—	130	130
Ecuador	7,852	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	18,755	—	—	—	—	—	—	—	—	—
Kuwait	2,418	—	—	—	—	—	—	—	—	—
Libya	1,707	—	—	450	—	—	—	—	—	—
Nigeria	9,184	—	—	—	—	—	—	—	308	308
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	21,402	—	—	150	—	—	—	—	—	—
United Arab Emirates	870	—	—	458	—	—	—	—	—	—
Venezuela	13,544	—	—	—	—	—	—	—	396	396
Non-OPEC	159,372	6,188	940	17,346	—	1,000	1,000	5,245	6,240	11,485
Argentina	—	—	—	—	—	—	—	—	81	81
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	2,650	—	—	—	—	—	—
Brazil	3,797	—	—	425	—	—	—	—	311	311
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	258	—	—	—	—	—	—
Canada	113,192	6,130	763	978	—	576	576	3,413	2,130	5,543
Chad	1,497	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	9,895	—	—	221	—	—	—	—	606	606
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	328	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	593	—	593
Germany	—	—	—	173	—	50	50	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	270	—	—	—	—	518	518
Indonesia	1,261	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	58	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	161	161
Malaysia	456	—	—	—	—	—	—	—	—	—
Mexico	22,494	—	33	123	—	—	—	—	—	—
Netherlands	—	—	—	1,206	—	—	—	—	143	143
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	228	—	—	—	—	—	—
Oman	1,636	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	284	284	282	569	851
Russia	1,465	—	—	8,314	—	90	90	—	818	818
Spain	—	—	—	—	—	—	—	—	520	520
Sweden	—	—	—	70	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	360	—	—	350	—	—	—	—	—	—
United Kingdom	1,656	—	—	—	—	—	—	957	—	957
Vietnam	208	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,455	0	144	1,752	—	0	0	0	383	383
Total	241,246	6,188	940	22,041	—	1,000	1,000	5,245	7,074	12,319
Persian Gulf³	43,445	—	—	608	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,248	—	—	458	1,706
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	511	—	—	—	511
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	737	—	—	—	737
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	458	458
Non-OPEC	114	180	—	504	299	—	4,338	331	1,792	581	7,042
Argentina	44	—	—	—	—	—	—	—	6	—	6
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	421	—	421
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	458	—	—	—	458
Brazil	70	88	—	—	—	—	—	287	—	—	287
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	205	—	—	3,238	44	1,109	208	4,599
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	482	—	—	—	482
Colombia	—	—	—	—	—	—	160	—	—	—	160
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	270	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	9
Korea, South	—	—	—	29	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	92	—	—	—	—	—	—	34	—	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	161	373	534
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	299	—	0	0	61	0	52
Total	114	180	—	504	299	—	5,586	331	1,792	1,039	8,748
Persian Gulf³	—	—	—	—	—	—	737	—	—	—	737

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	761	56	130	—	479	609
Algeria	—	—	—	—	43	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	3	—	—	—	91	91
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	13	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	758	—	130	—	388	518
Non-OPEC	—	35	—	3,907	492	196	260	4,743	5,199
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	26	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	6	—	470	144	—	260	1,375	1,635
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	832	—	—	—	—	—
Colombia	—	—	—	124	—	—	—	100	100
Congo (Brazzaville)	—	—	—	—	—	196	—	—	196
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	511	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	1,387	269	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	856	856
Netherlands	—	29	—	—	—	—	—	315	315
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	825	825
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	642	642
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	583	53	0	0	630	630
Total	—	35	—	4,668	548	326	260	5,222	5,808
Persian Gulf³	—	—	—	—	13	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	219	369	—	9,249	91,123	2,641	298	2,939
Algeria	—	—	—	—	—	—	—	3,680	4,631	31	119	149
Angola	—	—	—	—	—	—	—	130	5,321	167	4	172
Ecuador	—	—	—	—	—	—	—	—	7,852	253	—	253
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	18,755	605	—	605
Kuwait	—	—	—	—	—	—	—	—	2,418	78	—	78
Libya	—	—	—	—	—	—	—	544	2,251	55	18	73
Nigeria	—	—	—	—	—	—	—	819	10,003	296	26	323
Qatar	—	—	—	—	—	310	—	310	310	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	900	22,302	690	29	719
United Arab Emirates	—	—	—	—	—	59	—	517	1,387	28	17	45
Venezuela	—	—	—	—	219	—	—	2,349	15,893	437	76	513
Non-OPEC	451	90	110	330	860	868	3	57,447	216,819	5,141	1,853	6,994
Argentina	—	—	—	—	—	3	—	134	134	—	4	4
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	421	421	—	14	14
Bahrain	—	—	—	—	—	80	—	80	80	—	3	3
Belgium	1	—	—	—	—	13	—	3,122	3,122	—	101	101
Brazil	—	—	—	144	—	—	—	1,351	5,148	122	44	166
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	258	258	—	8	8
Canada	82	74	21	33	765	299	3	22,326	135,518	3,651	720	4,372
Chad	—	—	—	—	—	—	—	—	1,497	48	—	48
China	—	—	28	—	95	—	—	1,437	1,437	—	46	46
Colombia	—	—	—	152	—	—	—	1,363	11,258	319	44	363
Congo (Brazzaville)	—	—	—	—	—	—	—	196	196	—	6	6
Denmark	—	—	—	—	—	—	—	328	328	—	11	11
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	8	—	8	8	—	0	0
France	—	16	—	—	—	21	—	630	630	—	20	20
Germany	—	—	—	—	—	12	—	505	505	—	16	16
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,299	1,299	—	42	42
Indonesia	—	—	—	—	—	62	—	62	1,323	41	2	43
Italy	—	—	—	—	—	9	—	19	19	—	1	1
Korea, South	—	—	—	—	—	297	—	2,040	2,040	—	66	66
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	161	161	—	5	5
Malaysia	—	—	44	—	—	—	—	44	500	15	1	16
Mexico	260	—	—	—	—	—	—	1,272	23,766	726	41	767
Netherlands	—	—	—	—	—	—	—	1,819	1,819	—	59	59
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	228	228	—	7	7
Oman	—	—	—	—	—	—	—	—	1,636	53	—	53
Portugal	—	—	—	—	—	—	—	1,135	1,135	—	37	37
Russia	—	—	—	—	—	—	—	10,581	12,046	47	341	389
Spain	—	—	—	—	—	—	—	520	520	—	17	17
Sweden	—	—	—	1	—	4	—	75	75	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	992	1,352	12	32	44
United Kingdom	45	—	—	—	—	59	—	1,061	2,717	53	34	88
Vietnam	—	—	—	—	—	—	—	—	208	7	—	7
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	63	0	17	0	0	1	0	3,980	5,435	47	129	173
Total	451	90	110	330	1,079	1,237	3	66,696	307,942	7,782	2,151	9,934
Persian Gulf³	—	—	—	—	—	449	—	1,807	45,252	1,401	58	1,460

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,135,855	199	—	55,050	—	56	56	—	14,471	14,471
Algeria	23,938	—	—	43,819	—	—	—	—	—	—
Angola	47,052	—	—	860	—	—	—	—	1,196	1,196
Ecuador	75,443	—	—	—	—	—	—	—	—	—
Equatorial Guinea	4,328	—	—	—	—	—	—	—	—	—
Gabon	1,581	—	—	641	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	219,789	—	—	1,123	—	—	—	—	—	—
Kuwait	52,657	—	—	—	—	—	—	—	—	—
Libya	20,818	—	—	2,132	—	—	—	—	—	—
Nigeria	112,922	—	—	1,379	—	—	—	—	6,795	6,795
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	344,171	—	—	651	—	—	—	—	—	—
United Arab Emirates	7,426	—	—	3,834	—	—	—	—	—	—
Venezuela	225,730	199	—	611	—	56	56	—	6,480	6,480
Non-OPEC	1,751,933	58,516	10,543	174,793	—	11,668	11,668	76,948	129,109	206,057
Argentina	—	—	—	106	—	—	—	—	971	971
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	648	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	628	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	43	14,971	—	837	837	856	2,388	3,244
Brazil	72,124	—	—	1,373	—	—	—	—	1,889	1,889
Brunei	245	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	477	—	—	—	—	—	—
Canada	1,248,549	54,167	8,990	3,704	—	5,321	5,321	42,024	24,033	66,057
Chad	10,457	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	121,413	60	—	2,240	—	—	—	—	3,304	3,304
Congo (Brazzaville)	1,474	—	—	—	—	—	—	—	—	—
Denmark	1,230	—	—	1,833	—	9	9	36	343	379
Egypt	2,879	—	—	—	—	—	—	—	259	259
Estonia	—	—	—	—	—	—	—	318	1	319
Finland	—	—	—	224	—	308	308	82	2,510	2,592
France	—	—	—	2,722	—	88	88	5,567	3,967	9,534
Germany	—	—	—	1,010	—	257	257	158	245	403
Guatemala	2,956	—	—	—	—	—	—	—	—	—
India	—	—	—	4,107	—	8	8	529	18,849	19,378
Indonesia	6,446	—	—	—	—	—	—	—	—	—
Italy	—	—	—	891	—	327	327	269	3,892	4,161
Korea, South	—	114	—	—	—	225	225	—	2,698	2,698
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	103	—	—	—	222	1,299	1,521
Malaysia	456	—	—	1,666	—	—	—	—	245	245
Mexico	221,789	1,171	268	232	—	116	116	—	1,503	1,503
Netherlands	—	—	—	7,697	—	567	567	3,293	7,928	11,221
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	13,529	992	—	7,127	—	236	236	1,263	2,962	4,225
Oman	4,965	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	124	—	591	591	1,424	7,462	8,886
Russia	17,772	—	—	97,893	—	269	269	464	14,984	15,448
Spain	—	—	—	4,088	—	114	114	86	11,818	11,904
Sweden	—	511	—	1,492	—	271	271	128	1,097	1,225
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,839	386	—	1,760	—	2	2	—	750	750
United Kingdom	8,643	233	—	1,648	—	1,539	1,539	20,198	7,249	27,447
Vietnam	661	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	855	—	—	—	—	—	—	—	—	—
Other	12,003	882	1,242	16,677	—	583	583	31	6,463	6,494
Total	2,887,788	58,715	10,543	229,843	—	11,724	11,724	76,948	143,580	220,528
Persian Gulf³	624,043	—	—	5,608	—	—	—	—	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
OPEC	—	—	—	—	—	—	1,571	—	420	458	2,449
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	834	—	—	—	834
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	737	—	—	—	737
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	420	458	878
Non-OPEC	2,107	1,734	1,824	9,374	4,729	—	34,679	759	14,544	1,782	51,764
Argentina	259	—	—	6,920	—	—	—	—	6	—	6
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	810	—	810
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	234	—	—	—	—	—	458	—	422	260	1,140
Brazil	537	1,541	1,824	—	—	—	—	287	831	—	1,118
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	1,950	220	—	28,785	472	10,351	545	40,153
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	984	—	—	—	984
Colombia	—	—	—	—	—	—	343	—	70	—	413
Congo (Brazzaville)	—	—	—	—	—	—	—	—	205	—	205
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	115	115
Germany	161	—	—	392	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	3,259	—	100	114	3,473
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	9
Korea, South	—	—	—	83	—	—	476	—	—	—	476
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	75	—	—	—	75
Mexico	—	—	—	—	—	—	—	—	100	—	100
Netherlands	850	193	—	—	—	—	—	—	78	—	78
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	804	748	1,552
Spain	—	—	—	—	—	—	—	—	162	—	162
Sweden	—	—	—	—	—	—	—	—	19	—	19
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	351	—	351
United Kingdom	66	—	—	—	—	—	—	—	4	—	4
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	29	4,509	—	299	0	231	0	521
Total	2,107	1,734	1,824	9,374	4,729	—	36,250	759	14,964	2,240	54,213
Persian Gulf³	—	—	—	—	—	—	737	—	—	—	737

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	6,621	93	1,137	612	4,631	6,380
Algeria	—	—	—	7	43	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	174	174
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	101	—	—	—	—	—
Kuwait	—	—	—	181	—	—	—	—	—
Libya	—	—	—	3	—	85	612	91	788
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	637	50	—	—	—	—
United Arab Emirates	—	—	—	279	—	—	—	—	—
Venezuela	—	—	—	5,403	—	705	—	4,366	5,071
Non-OPEC	1,167	134	—	52,176	5,286	2,975	6,683	52,550	62,208
Argentina	—	—	—	—	—	456	261	—	717
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	779	779
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	67	—	—	120	120
Brazil	—	—	—	13	244	105	469	54	628
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	71	—	7,123	1,808	235	1,963	10,769	12,967
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	5,441	—	—	—	—	—
Colombia	—	—	—	124	—	240	717	1,655	2,612
Congo (Brazzaville)	—	—	—	—	—	196	—	—	196
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	221	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	41	—	—	272	272
Germany	—	—	—	—	57	—	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,958	—	—	81	171	252
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	37	—	—	444	444
Korea, South	55	—	—	28,847	1,324	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	351	—	—	—	—	—
Mexico	—	—	—	—	334	640	709	18,528	19,877
Netherlands	—	63	—	—	65	—	—	1,816	1,816
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	8	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	14	—	—	—	—
Russia	—	—	—	308	—	907	482	5,406	6,795
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	274	274
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	6,233	6,554
United Kingdom	—	—	—	—	—	—	—	3	3
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	944	0	—	6,582	1,295	196	1,680	6,025	7,901
Total	1,167	134	—	58,797	5,379	4,112	7,295	57,181	68,588
Persian Gulf³	—	—	—	1,198	50	—	—	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	464	—	—	192	1,286	3,392	—	90,653	1,226,508	3,112	248	3,360
Algeria	326	—	—	—	—	387	—	44,929	68,867	66	123	189
Angola	—	—	—	—	—	—	—	2,056	49,108	129	6	135
Ecuador	—	—	—	—	—	—	—	184	75,627	207	1	207
Equatorial Guinea	—	—	—	—	—	—	—	—	4,328	12	—	12
Gabon	—	—	—	—	—	—	—	641	2,222	4	2	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,224	221,013	602	3	606
Kuwait	—	—	—	—	—	—	—	181	52,838	144	0	145
Libya	—	—	—	—	—	—	—	2,923	23,741	57	8	65
Nigeria	138	—	—	—	—	—	—	9,146	122,068	309	25	334
Qatar	—	—	—	—	—	2,275	—	2,275	2,275	—	6	6
Saudi Arabia	—	—	—	—	—	22	—	2,097	346,268	943	6	949
United Arab Emirates	—	—	—	—	—	708	—	4,821	12,247	20	13	34
Venezuela	—	—	—	192	1,286	—	—	20,176	245,906	618	55	674
Non-OPEC	10,908	4,323	1,751	3,302	12,619	11,593	64	698,873	2,450,806	4,800	1,915	6,715
Argentina	—	310	—	1,287	—	21	—	10,597	10,597	—	29	29
Aruba	—	—	—	—	—	—	—	151	151	—	0	0
Australia	—	—	—	—	—	—	—	—	648	2	—	2
Bahamas	—	—	—	—	66	—	—	2,326	2,326	—	6	6
Bahrain	—	—	—	—	—	745	—	745	745	—	2	2
Belgium	3	—	—	—	—	507	—	21,166	21,166	—	58	58
Brazil	—	—	84	289	—	23	—	9,578	81,702	198	26	224
Brunei	—	—	—	—	—	—	—	—	245	1	—	1
Cameroon	—	—	—	—	—	—	—	477	477	—	1	1
Canada	915	905	673	576	10,492	3,666	22	219,895	1,468,444	3,421	602	4,023
Chad	—	—	—	—	—	—	—	6	10,463	29	0	29
China	—	—	591	114	95	—	—	7,393	7,393	—	20	20
Colombia	1,770	—	—	354	1	—	—	10,878	132,291	333	30	362
Congo (Brazzaville)	—	—	—	—	—	—	—	401	1,875	4	1	5
Denmark	—	—	—	—	—	—	—	2,221	3,451	3	6	9
Egypt	—	—	—	—	—	—	—	480	3,359	8	1	9
Estonia	—	—	—	171	—	—	—	490	490	—	1	1
Finland	—	—	—	—	—	252	—	3,376	3,376	—	9	9
France	44	261	—	—	—	181	—	13,258	13,258	—	36	36
Germany	15	—	16	1	1	351	—	2,673	2,673	—	7	7
Guatemala	—	—	—	—	—	—	—	—	2,956	8	—	8
India	—	—	—	—	—	—	—	30,176	30,176	—	83	83
Indonesia	—	—	—	—	—	698	—	698	7,144	18	2	20
Italy	14	—	8	—	—	206	—	6,110	6,110	—	17	17
Korea, South	36	—	3	—	—	4,346	—	38,207	38,207	—	105	105
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	1,624	1,624	—	4	4
Malaysia	—	—	196	—	209	44	—	2,786	3,242	1	8	9
Mexico	3,403	—	—	—	—	—	—	27,004	248,793	608	74	682
Netherlands	151	—	1	—	—	—	42	22,801	22,801	—	62	62
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	15,251	28,780	37	42	79
Oman	—	—	—	—	—	132	—	132	5,097	14	0	14
Portugal	—	—	—	—	—	—	—	9,615	9,615	—	26	26
Russia	167	—	—	—	—	90	—	122,524	140,296	49	336	384
Spain	—	—	8	—	1,579	—	—	17,855	17,855	—	49	49
Sweden	—	—	—	10	—	29	—	3,831	3,831	—	10	10
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	9,803	12,642	8	27	35
United Kingdom	548	—	—	203	—	230	—	31,921	40,564	24	87	111
Vietnam	—	—	—	—	—	—	—	—	661	2	—	2
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	855	2	—	2
Other	3,842	184	171	297	176	72	0	52,424	64,427	30	148	180
Total	11,372	4,323	1,751	3,494	13,905	14,985	64	789,526	3,677,314	7,912	2,163	10,075
Persian Gulf³	—	—	—	—	—	3,750	—	11,343	635,386	1,710	31	1,741

— = No Data Reported.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	17,417	-	-	413	-	-	-	-	834	834
Algeria	951	-	-	413	-	-	-	-	-	-
Angola	2,872	-	-	-	-	-	-	-	130	130
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,574	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,707	-	-	-	-	-	-	-	-	-
Nigeria	7,183	-	-	-	-	-	-	-	308	308
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	3,130	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	396	396
Non-OPEC	9,856	1,550	302	1,375	-	973	973	5,183	5,378	10,561
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	56	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	303	303
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	7,891	1,550	302	-	-	549	549	3,351	1,357	4,708
Chad	996	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	969	-	-	-	-	-	-	-	606	606
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	593	-	593
Germany	-	-	-	38	-	50	50	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	518	518
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	161	161
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	210	-	-	-	-	143	143
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	284	284	282	569	851
Russia	-	-	-	1,071	-	90	90	-	818	818
Spain	-	-	-	-	-	-	-	-	520	520
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	957	-	957
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	0	0	0	383	383
Total	27,273	1,550	302	1,788	-	973	973	5,183	6,212	11,395
Persian Gulf³	4,704	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,248	—	—	—	1,248
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	511	—	—	—	511
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	737	—	—	—	737
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	445	—	—	3,986	331	1,514	193	6,024
Argentina	—	—	—	—	—	—	—	—	6	—	6
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	421	—	421
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	458	—	—	—	458
Brazil	—	—	—	—	—	—	—	287	—	—	287
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	175	—	—	2,886	44	1,029	193	4,152
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	482	—	—	—	482
Colombia	—	—	—	—	—	—	160	—	—	—	160
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	270	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	6	—	6
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	0	52	0	52
Total	—	—	—	445	—	—	5,234	331	1,514	193	7,272
Persian Gulf³	—	—	—	—	—	—	737	—	—	—	737

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	761	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	3	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	758	—	—	—	—	—
Non-OPEC	—	30	—	1,602	—	—	—	1,683	1,683
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	470	—	—	—	941	941
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	124	—	—	—	100	100
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	511	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	444	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	29	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	642	642
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	53	—	—	—	0	0
Total	—	30	—	2,363	—	—	—	1,683	1,683
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	219	—	—	3,475	20,892	562	112	674
Algeria	—	—	—	—	—	—	—	413	1,364	31	13	44
Angola	—	—	—	—	—	—	—	130	3,002	93	4	97
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	1,574	51	—	51
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	3	1,710	55	0	55
Nigeria	—	—	—	—	—	—	—	819	8,002	232	26	258
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	737	3,867	101	24	125
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	219	—	—	1,373	1,373	—	44	44
Non-OPEC	4	—	27	—	151	114	—	24,841	34,697	318	801	1,119
Argentina	—	—	—	—	—	—	—	6	6	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	421	421	—	14	14
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	4	—	519	519	—	17	17
Brazil	—	—	—	—	—	—	—	590	590	—	19	19
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	20	—	151	88	—	13,107	20,998	255	423	677
Chad	—	—	—	—	—	—	—	—	996	32	—	32
China	—	—	5	—	—	—	—	487	487	—	16	16
Colombia	—	—	—	—	—	—	—	990	1,959	31	32	63
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	6	—	599	599	—	19	19
Germany	—	—	—	—	—	7	—	365	365	—	12	12
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,029	1,029	—	33	33
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	5	—	5	5	—	0	0
Korea, South	—	—	—	—	—	—	—	444	444	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	161	161	—	5	5
Malaysia	—	—	1	—	—	—	—	1	1	—	0	0
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	382	382	—	12	12
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,135	1,135	—	37	37
Russia	—	—	—	—	—	—	—	1,985	1,985	—	64	64
Spain	—	—	—	—	—	—	—	520	520	—	17	17
Sweden	—	—	—	—	—	4	—	4	4	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	642	642	—	21	21
United Kingdom	3	—	—	—	—	—	—	960	960	—	31	31
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	1	—	0	0	—	489	489	0	15	16
Total	4	—	27	—	370	114	—	28,316	55,589	880	913	1,793
Persian Gulf³	—	—	—	—	—	—	—	737	5,441	152	24	176

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	75,981	2,906	460	123	-	-	-	62	413	475
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	75,981	2,906	460	123	-	-	-	62	413	475
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	0	0	0
Total	75,981	2,906	460	123	-	-	-	62	413	475
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	25	—	—	171	—	—	15	186
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	25	—	—	171	—	—	15	186
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	—	—	0	0
Total	—	—	—	25	—	—	171	—	—	15	186
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	3	—	—	42	—	108	—	108
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	3	—	—	42	—	108	—	108
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	—	0	—	0
Total	—	3	—	—	42	—	108	—	108
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	82	74	1	14	175	207	2	4,883	80,864	2,451	158	2,609
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	82	74	1	13	175	207	2	4,882	80,863	2,451	157	2,608
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	1	—	—	—	1	1	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	0	0	0	0	1	1
Total	82	74	1	14	175	207	2	4,883	80,864	2,451	158	2,609
Persian Gulf ³	—	—	—	—	—	—	—	—	—	—	—	—

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	43,377	-	-	3,136	-	-	-	-	-	-
Algeria	-	-	-	2,078	-	-	-	-	-	-
Angola	1,307	-	-	-	-	-	-	-	-	-
Ecuador	1,651	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	14,031	-	-	-	-	-	-	-	-	-
Kuwait	1,028	-	-	-	-	-	-	-	-	-
Libya	-	-	-	450	-	-	-	-	-	-
Nigeria	946	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	10,870	-	-	150	-	-	-	-	-	-
United Arab Emirates	-	-	-	458	-	-	-	-	-	-
Venezuela	13,544	-	-	-	-	-	-	-	-	-
Non-OPEC	42,424	-	177	14,076	-	-	-	-	89	89
Argentina	-	-	-	-	-	-	-	-	81	81
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	2,594	-	-	-	-	-	-
Brazil	2,478	-	-	425	-	-	-	-	8	8
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	258	-	-	-	-	-	-
Canada	12,806	-	-	855	-	-	-	-	-	-
Chad	501	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	4,207	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	328	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	135	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	270	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	20,056	-	33	123	-	-	-	-	-	-
Netherlands	-	-	-	996	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	228	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	720	-	-	6,235	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	70	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	350	-	-	-	-	-	-
United Kingdom	1,656	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	144	1,209	-	-	-	-	0	0
Total	85,801	-	177	17,212	-	-	-	-	89	89
Persian Gulf³	25,929	-	-	608	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	—	458	458
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	458	458
Non-OPEC	114	180	—	—	—	—	—	—	278	373	651
Argentina	44	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	70	88	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	80	—	80
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	9
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	92	—	—	—	—	—	—	34	—	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	155	373	528
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	—	—	—	—	9	0	0
Total	114	180	—	—	—	—	—	—	278	831	1,109
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	56	130	—	479	609
Algeria	—	—	—	—	43	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	91	91
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	13	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	130	—	388	518
Non-OPEC	—	—	—	—	450	196	—	1,907	2,103
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	26	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	102	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	196	—	—	196
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	269	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	856	856
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	825	825
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	53	0	—	226	226
Total	—	—	—	—	506	326	—	2,386	2,712
Persian Gulf³	—	—	—	—	13	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	369	—	4,628	48,005	1,399	149	1,549
Algeria	—	—	—	—	—	—	—	2,121	2,121	—	68	68
Angola	—	—	—	—	—	—	—	—	1,307	42	—	42
Ecuador	—	—	—	—	—	—	—	—	1,651	53	—	53
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	14,031	453	—	453
Kuwait	—	—	—	—	—	—	—	—	1,028	33	—	33
Libya	—	—	—	—	—	—	—	541	541	—	17	17
Nigeria	—	—	—	—	—	—	—	—	946	31	—	31
Qatar	—	—	—	—	—	310	—	310	310	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	163	11,033	351	5	356
United Arab Emirates	—	—	—	—	—	59	—	517	517	—	17	17
Venezuela	—	—	—	—	—	—	—	976	14,520	437	31	468
Non-OPEC	365	16	44	296	—	521	—	19,086	61,510	1,369	616	1,984
Argentina	—	—	—	—	—	3	—	128	128	—	4	4
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	80	—	80	80	—	3	3
Belgium	—	—	—	—	—	9	—	2,603	2,603	—	84	84
Brazil	—	—	—	144	—	—	—	761	3,239	80	25	104
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	258	258	—	8	8
Canada	—	—	—	—	—	—	—	1,037	13,843	413	33	447
Chad	—	—	—	—	—	—	—	—	501	16	—	16
China	—	—	1	—	—	—	—	1	1	—	0	0
Colombia	—	—	—	152	—	—	—	152	4,359	136	5	141
Congo (Brazzaville)	—	—	—	—	—	—	—	196	196	—	6	6
Denmark	—	—	—	—	—	—	—	328	328	—	11	11
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	8	—	8	8	—	0	0
France	—	16	—	—	—	15	—	31	31	—	1	1
Germany	—	—	—	—	—	5	—	140	140	—	5	5
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	270	270	—	9	9
Indonesia	—	—	—	—	—	62	—	62	62	—	2	2
Italy	—	—	—	—	—	4	—	14	14	—	0	0
Korea, South	—	—	—	—	—	275	—	544	544	—	18	18
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	43	—	—	—	—	43	43	—	1	1
Mexico	260	—	—	—	—	—	—	1,272	21,328	647	41	688
Netherlands	—	—	—	—	—	—	—	1,122	1,122	—	36	36
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	228	228	—	7	7
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	7,588	8,308	23	245	268
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	70	70	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	350	—	11	11
United Kingdom	42	—	—	—	—	59	—	101	1,757	53	3	57
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	63	0	0	0	—	1	—	1,699	1,699	1	56	55
Total	365	16	44	296	—	890	—	23,714	109,515	2,768	765	3,533
Persian Gulf³	—	—	—	—	—	449	—	1,070	26,999	836	35	871

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,595	427	-	-	-	-	-	-	8	8
Canada	8,595	427	-	-	-	-	-	-	8	8
Other	0	0	-	-	-	-	-	-	0	0
Total	8,595	427	-	-	-	-	-	-	8	8
	PAD District 5									
OPEC	21,080	-	-	1,146	-	-	-	-	-	-
Algeria	-	-	-	1,146	-	-	-	-	-	-
Angola	1,012	-	-	-	-	-	-	-	-	-
Ecuador	6,201	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,150	-	-	-	-	-	-	-	-	-
Kuwait	1,390	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	1,055	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,402	-	-	-	-	-	-	-	-	-
United Arab Emirates	870	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	22,516	1,305	1	1,772	-	27	27	-	352	352
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	1,319	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	7,919	1,247	1	-	-	27	27	-	352	352
China	-	-	-	-	-	-	-	-	-	-
Colombia	4,719	-	-	221	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	1,261	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	58	-	-	-	-	-	-	-	-
Malaysia	456	-	-	-	-	-	-	-	-	-
Mexico	2,438	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	1,636	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	172	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	208	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	2,560	0	0	1,379	-	0	0	-	0	0
Total	43,596	1,305	1	2,918	-	27	27	-	352	352
Persian Gulf ³	12,812	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	4	—	—	82	—	—	—	82
Canada	—	—	—	4	—	—	82	—	—	—	82
Other	—	—	—	0	—	—	0	—	—	—	0
Total	—	—	—	4	—	—	82	—	—	—	82
	PAD District 5										
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	30	299	—	99	—	—	—	99
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	1	—	—	99	—	—	—	99
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	29	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	299	—	0	—	—	—	0
Total	—	—	—	30	299	—	99	—	—	—	99
Persian Gulf ³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2	-	2,305	-	-	152	1,153	1,305
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	2	-	-	-	-	152	434	586
China	-	-	-	832	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	530	-	-	-	-	-
Korea, South	-	-	-	943	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	315	315
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	404	404
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	0	0	0
Total	-	2	-	2,305	-	-	152	1,153	1,305
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	30	1	1	553	9,148	277	18	295
Canada	—	—	—	—	30	1	1	553	9,148	277	18	295
Other	—	—	—	—	0	0	0	0	0	0	0	0
Total	—	—	—	—	30	1	1	553	9,148	277	18	295
	PAD District 5											
OPEC	—	—	—	—	—	—	—	1,146	22,226	680	37	717
Algeria	—	—	—	—	—	—	—	1,146	1,146	—	37	37
Angola	—	—	—	—	—	—	—	—	1,012	33	—	33
Ecuador	—	—	—	—	—	—	—	—	6,201	200	—	200
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	3,150	102	—	102
Kuwait	—	—	—	—	—	—	—	—	1,390	45	—	45
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	1,055	34	—	34
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	7,402	239	—	239
United Arab Emirates	—	—	—	—	—	—	—	—	870	28	—	28
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	38	20	504	25	—	8,084	30,600	726	261	987
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	1,319	43	—	43
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	20	409	3	—	2,747	10,666	255	89	344
China	—	—	22	—	95	—	—	949	949	—	31	31
Colombia	—	—	—	—	—	—	—	221	4,940	152	7	159
Finland	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	1,261	41	—	41
Japan	—	—	16	—	—	—	—	546	546	—	18	18
Korea, South	—	—	—	—	—	22	—	1,052	1,052	—	34	34
Malaysia	—	—	—	—	—	—	—	—	456	15	—	15
Mexico	—	—	—	—	—	—	—	—	2,438	79	—	79
Netherlands	—	—	—	—	—	—	—	315	315	—	10	10
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	1,636	53	—	53
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	576	576	—	19	19
Singapore	—	—	—	—	—	—	—	299	299	—	10	10
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	208	7	—	7
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	0	—	1,379	3,939	81	43	124
Total	—	—	38	20	504	25	—	9,230	52,826	1,406	298	1,704
Persian Gulf ³	—	—	—	—	—	—	—	—	12,812	413	—	413

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	220,896	—	—	6,470	—	56	56	—	14,182	14,182
Algeria	16,805	—	—	5,701	—	—	—	—	—	—
Angola	28,943	—	—	120	—	—	—	—	1,196	1,196
Ecuador	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	23,846	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	15,409	—	—	—	—	—	—	—	—	—
Nigeria	100,903	—	—	649	—	—	—	—	6,795	6,795
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	29,624	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	5,366	—	—	—	—	56	56	—	6,191	6,191
Non-OPEC	123,081	13,713	3,886	16,622	—	9,258	9,258	76,360	101,507	177,867
Argentina	—	—	—	—	—	—	—	—	80	80
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,372	—	837	837	856	1,484	2,340
Brazil	10,156	—	—	—	—	—	—	—	1,487	1,487
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	73,617	12,606	3,886	443	—	4,600	4,600	41,704	14,623	56,327
Chad	2,899	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	13,852	—	—	104	—	—	—	—	2,858	2,858
Congo (Brazzaville)	951	—	—	—	—	—	—	—	—	—
Denmark	1,230	—	—	4	—	9	9	36	302	338
Egypt	1,746	—	—	—	—	—	—	—	259	259
Estonia	—	—	—	—	—	—	—	318	1	319
Finland	—	—	—	—	—	—	—	82	2,510	2,592
France	—	—	—	482	—	—	—	5,567	3,530	9,097
Germany	—	—	—	113	—	166	166	158	221	379
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	8	8	529	16,723	17,252
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	327	327	269	3,266	3,535
Korea, South	—	—	—	—	—	—	—	—	1,461	1,461
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	222	656	878
Malaysia	—	—	—	—	—	—	—	—	175	175
Mexico	1,839	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	954	—	477	477	3,293	5,624	8,917
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	12,033	596	—	153	—	236	236	1,263	2,910	4,173
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	124	—	591	591	1,424	7,183	8,607
Russia	2,110	—	—	6,988	—	126	126	464	14,574	15,038
Spain	—	—	—	2,565	—	114	114	86	10,479	10,565
Sweden	—	511	—	709	—	271	271	128	1,097	1,225
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	2	2	—	480	480
United Kingdom	645	—	—	366	—	1,494	1,494	19,930	5,612	25,542
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	2,003	0	0	2,245	—	0	0	31	3,912	3,943
Total	343,977	13,713	3,886	23,092	—	9,314	9,314	76,360	115,689	192,049
Persian Gulf³	53,470	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,571	—	319	—	1,890
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	834	—	—	—	834
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	737	—	—	—	737
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	319	—	319
Non-OPEC	—	—	100	6,297	—	—	29,159	759	11,743	468	42,129
Argentina	—	—	—	5,204	—	—	—	—	6	—	6
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	810	—	810
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	458	—	—	—	458
Brazil	—	—	100	—	—	—	—	287	276	—	563
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	701	—	—	24,538	472	9,836	468	35,314
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	486	—	—	—	486
Colombia	—	—	—	—	—	—	343	—	70	—	413
Congo (Brazzaville)	—	—	—	—	—	—	—	—	205	—	205
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	392	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	3,259	—	—	—	3,259
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	75	—	—	—	75
Mexico	—	—	—	—	—	—	—	—	100	—	100
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	37	—	37
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	351	—	351
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	—	—	0	0	52	0	52
Total	—	—	100	6,297	—	—	30,730	759	12,062	468	44,019
Persian Gulf³	—	—	—	—	—	—	737	—	—	—	737

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	6,466	—	432	612	2,662	3,706
Algeria	—	—	—	7	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	3	—	—	—	—	—
Kuwait	—	—	—	181	—	—	—	—	—
Libya	—	—	—	3	—	85	612	—	697
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	586	—	—	—	—	—
United Arab Emirates	—	—	—	279	—	—	—	—	—
Venezuela	—	—	—	5,397	—	—	—	2,662	2,662
Non-OPEC	1,112	75	—	17,665	—	777	3,044	19,864	23,685
Argentina	—	—	—	—	—	—	261	—	261
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	89	89
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	13	—	—	—	54	54
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	12	—	7,114	—	85	408	8,859	9,352
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	262	—	—	—	—	—
Colombia	—	—	—	124	—	240	406	1,655	2,301
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	46	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,958	—	—	—	1	1
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	5,747	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	351	—	—	—	—	—
Mexico	—	—	—	—	—	—	137	1,260	1,397
Netherlands	—	63	—	—	—	—	—	137	137
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	8	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	276	—	256	460	1,934	2,650
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	270	270
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	5,226	5,547
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	944	0	—	566	—	196	1,051	379	1,626
Total	1,112	75	—	24,131	—	1,209	3,656	22,526	27,391
Persian Gulf³	—	—	—	1,049	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	138	—	—	192	1,286	498	—	34,884	255,780	605	96	701
Algeria	—	—	—	—	—	387	—	6,442	23,247	46	18	64
Angola	—	—	—	—	—	—	—	1,316	30,259	79	4	83
Ecuador	—	—	—	—	—	—	—	10	10	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3	23,849	65	0	65
Kuwait	—	—	—	—	—	—	—	181	181	—	0	0
Libya	—	—	—	—	—	—	—	700	16,109	42	2	44
Nigeria	138	—	—	—	—	—	—	8,416	109,319	276	23	300
Qatar	—	—	—	—	—	15	—	15	15	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	1,323	30,947	81	4	85
United Arab Emirates	—	—	—	—	—	96	—	375	375	—	1	1
Venezuela	—	—	—	192	1,286	—	—	16,103	21,469	15	44	59
Non-OPEC	167	—	863	25	7,856	1,983	—	323,305	446,386	337	886	1,223
Argentina	—	—	—	—	—	8	—	5,559	5,559	—	15	15
Aruba	—	—	—	—	—	—	—	151	151	—	0	0
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	66	—	—	1,008	1,008	—	3	3
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	82	—	5,090	5,090	—	14	14
Brazil	—	—	84	—	—	—	—	2,301	12,457	28	6	34
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	597	6	6,105	1,276	—	138,339	211,956	202	379	581
Chad	—	—	—	—	—	—	—	6	2,905	8	0	8
China	—	—	135	—	—	—	—	1,051	1,051	—	3	3
Colombia	—	—	—	—	—	—	—	5,800	19,652	38	16	54
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	3	1	3
Denmark	—	—	—	—	—	—	—	351	1,581	3	1	4
Egypt	—	—	—	—	—	—	—	305	2,051	5	1	6
Estonia	—	—	—	—	—	—	—	319	319	—	1	1
Finland	—	—	—	—	—	—	—	2,592	2,592	—	7	7
France	—	—	—	—	—	71	—	9,650	9,650	—	26	26
Germany	—	—	16	—	1	115	—	1,182	1,182	—	3	3
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	23,478	23,478	—	64	64
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	31	—	3,893	3,893	—	11	11
Korea, South	—	—	3	—	—	316	—	7,527	7,527	—	21	21
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	878	878	—	2	2
Malaysia	—	—	7	—	—	—	—	608	608	—	2	2
Mexico	—	—	—	—	—	—	—	1,497	3,336	5	4	9
Netherlands	—	—	1	—	—	—	—	10,549	10,549	—	29	29
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	5,166	17,199	33	14	47
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	9,322	9,322	—	26	26
Russia	—	—	—	—	—	53	—	25,170	27,280	6	69	75
Spain	—	—	8	—	1,532	—	—	14,784	14,784	—	41	41
Sweden	—	—	—	—	—	23	—	3,009	3,009	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	6,380	6,380	—	17	17
United Kingdom	15	—	—	—	—	5	—	27,422	28,067	2	75	77
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	151	—	12	19	152	3	—	9,713	11,716	4	27	32
Total	305	—	863	217	9,142	2,481	—	358,189	702,166	942	981	1,924
Persian Gulf³	—	—	—	—	—	111	—	1,897	55,367	146	5	152

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,403	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	9,352	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	51	-	-	-	-	-	-	-	-	-
Non-OPEC	853,490	25,404	5,102	123	-	-	-	320	3,410	3,730
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	852,492	25,404	5,102	123	-	-	-	320	3,410	3,730
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	998	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	0	0	0
Total	862,893	25,404	5,102	123	-	-	-	320	3,410	3,730
Persian Gulf³	9,352	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	428	-	-	584	-	12	77	673
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	428	-	-	584	-	12	77	673
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	428	-	-	584	-	12	77	673
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	5	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	5	—	—	—	—	—
Non-OPEC	—	27	—	—	537	—	543	413	956
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	27	—	—	537	—	543	413	956
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	0	—	0	0	0
Total	—	27	—	5	537	—	543	413	956
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	4	—	9	9,412	26	0	26
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	4	—	4	4	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	—	9,352	26	—	26
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	5	56	0	0	0
Non-OPEC	892	879	75	265	2,796	2,326	6	44,334	897,824	2,338	121	2,460
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	892	879	75	254	2,796	2,323	6	44,320	896,812	2,336	121	2,457
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	1	—	1	—	2	2	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	1	—	1	1	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	998	3	—	3
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	10	—	1	—	11	11	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	0	0	0	-1	0	0
Total	892	879	75	265	2,796	2,330	6	44,343	907,236	2,364	121	2,486
Persian Gulf³	—	—	—	—	—	4	—	4	9,356	26	0	26

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	656,009	199	-	37,893	-	-	-	-	289	289
Algeria	7,133	-	-	30,901	-	-	-	-	-	-
Angola	6,790	-	-	740	-	-	-	-	-	-
Ecuador	6,459	-	-	-	-	-	-	-	-	-
Equatorial Guinea	2,281	-	-	-	-	-	-	-	-	-
Gabon	1,581	-	-	641	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	168,421	-	-	1,123	-	-	-	-	-	-
Kuwait	28,738	-	-	-	-	-	-	-	-	-
Libya	1,239	-	-	1,447	-	-	-	-	-	-
Nigeria	8,827	-	-	730	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	204,084	-	-	651	-	-	-	-	-	-
United Arab Emirates	540	-	-	1,049	-	-	-	-	-	-
Venezuela	219,916	199	-	611	-	-	-	-	289	289
Non-OPEC	470,834	2,534	1,553	124,547	-	1,187	1,187	-	13,439	13,439
Argentina	-	-	-	106	-	-	-	-	891	891
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	275	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	13,005	-	-	-	-	904	904
Brazil	40,739	-	-	1,322	-	-	-	-	402	402
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	477	-	-	-	-	-	-
Canada	140,078	14	-	1,375	-	-	-	-	71	71
Chad	7,558	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	58,823	-	-	415	-	-	-	-	228	228
Congo (Brazzaville)	523	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	1,829	-	-	-	-	-	-
Egypt	447	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	126	-	308	308	-	-	-
France	-	-	-	2,240	-	-	-	-	437	437
Germany	-	-	-	682	-	91	91	-	-	-
Guatemala	2,956	-	-	-	-	-	-	-	-	-
India	-	-	-	3,228	-	-	-	-	2,126	2,126
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	891	-	-	-	-	626	626
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	103	-	-	-	-	643	643
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	204,289	1,171	268	232	-	116	116	-	1,503	1,503
Netherlands	-	-	-	6,684	-	47	47	-	1,661	1,661
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	1,496	396	-	6,974	-	-	-	-	22	22
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	279	279
Russia	720	-	-	71,747	-	22	22	-	306	306
Spain	-	-	-	1,523	-	-	-	-	1,339	1,339
Sweden	-	-	-	671	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,112	-	-	1,061	-	-	-	-	270	270
United Kingdom	7,998	233	-	1,282	-	20	20	-	680	680
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,514	720	1,242	7,658	-	583	583	-	1,051	1,051
Total	1,126,843	2,733	1,553	162,440	-	1,187	1,187	-	13,728	13,728
Persian Gulf³	401,783	-	-	2,823	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	101	458	559
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	101	458	559
Non-OPEC	2,107	1,734	—	1,716	—	—	—	—	2,691	1,237	3,928
Argentina	259	—	—	1,716	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	234	—	—	—	—	—	—	—	422	260	682
Brazil	537	1,541	—	—	—	—	—	—	555	—	555
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	405	—	405
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	115	115
Germany	161	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	100	114	214
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	9
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	850	193	—	—	—	—	—	—	78	—	78
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	767	748	1,515
Spain	—	—	—	—	—	—	—	—	162	—	162
Sweden	—	—	—	—	—	—	—	—	19	—	19
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	66	—	—	—	—	—	—	—	4	—	4
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	—	—	—	179	0	170
Total	2,107	1,734	—	1,716	—	—	—	—	2,792	1,695	4,487
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	93	705	—	1,795	2,500
Algeria	—	—	—	—	43	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	91	91
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	50	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	705	—	1,704	2,409
Non-OPEC	—	—	—	125	4,704	2,198	1,594	17,832	21,624
Argentina	—	—	—	—	—	456	—	—	456
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	67	—	—	120	120
Brazil	—	—	—	—	244	105	469	—	574
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	1,271	150	—	—	150
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	311	—	311
Congo (Brazzaville)	—	—	—	—	—	196	—	—	196
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	125	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	41	—	—	272	272
Germany	—	—	—	—	57	—	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	81	170	251
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	37	—	—	—	—
Korea, South	—	—	—	—	1,279	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	334	640	302	13,506	14,448
Netherlands	—	—	—	—	65	—	—	402	402
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	14	—	—	—	—
Russia	—	—	—	—	—	651	22	3,128	3,801
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	4	4
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	3	3
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	1,295	0	409	226	635
Total	—	—	—	125	4,797	2,903	1,594	19,627	24,124
Persian Gulf³	—	—	—	—	50	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	326	—	—	—	—	2,890	—	44,749	700,758	1,797	123	1,920
Algeria	326	—	—	—	—	—	—	31,270	38,403	20	86	105
Angola	—	—	—	—	—	—	—	740	7,530	19	2	21
Ecuador	—	—	—	—	—	—	—	—	6,459	18	—	18
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	6	—	6
Gabon	—	—	—	—	—	—	—	641	2,222	4	2	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,123	169,544	461	3	465
Kuwait	—	—	—	—	—	—	—	—	28,738	79	—	79
Libya	—	—	—	—	—	—	—	1,538	2,777	3	4	8
Nigeria	—	—	—	—	—	—	—	730	9,557	24	2	26
Qatar	—	—	—	—	—	2,256	—	2,256	2,256	—	6	6
Saudi Arabia	—	—	—	—	—	22	—	723	204,807	559	2	561
United Arab Emirates	—	—	—	—	—	612	—	1,661	2,201	1	5	6
Venezuela	—	—	—	—	—	—	—	4,067	223,983	603	11	614
Non-OPEC	9,439	3,412	402	2,696	—	6,729	42	202,034	672,868	1,290	554	1,843
Argentina	—	310	—	1,287	—	13	—	5,038	5,038	—	14	14
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	275	275	—	1	1
Bahrain	—	—	—	—	—	745	—	745	745	—	2	2
Belgium	2	—	—	—	—	57	—	15,114	15,114	—	41	41
Brazil	—	—	—	289	—	23	—	5,502	46,241	112	15	127
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	477	477	—	1	1
Canada	—	26	—	—	—	—	—	3,312	143,390	384	9	393
Chad	—	—	—	—	—	—	—	—	7,558	21	—	21
China	—	—	149	114	—	—	—	263	263	—	1	1
Colombia	1,770	—	—	354	—	—	—	3,138	61,961	161	9	170
Congo (Brazzaville)	—	—	—	—	—	—	—	196	719	1	1	2
Denmark	—	—	—	—	—	—	—	1,829	1,829	—	5	5
Egypt	—	—	—	—	—	—	—	125	572	1	0	2
Estonia	—	—	—	171	—	—	—	171	171	—	0	0
Finland	—	—	—	—	—	252	—	686	686	—	2	2
France	44	229	—	—	—	110	—	3,488	3,488	—	10	10
Germany	15	—	—	—	—	235	—	1,250	1,250	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,956	8	—	8
India	—	—	—	—	—	—	—	5,819	5,819	—	16	16
Indonesia	—	—	—	—	—	698	—	698	698	—	2	2
Italy	14	—	8	—	—	175	—	1,773	1,773	—	5	5
Korea, South	—	—	—	—	—	3,911	—	5,190	5,190	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	746	746	—	2	2
Malaysia	—	—	186	—	—	44	—	230	230	—	1	1
Mexico	3,403	—	—	—	—	—	—	21,475	225,764	560	59	619
Netherlands	151	—	—	—	—	—	42	10,230	10,230	—	28	28
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	10,055	11,551	4	28	32
Oman	—	—	—	—	—	132	—	132	132	—	0	0
Portugal	—	—	—	—	—	—	—	293	293	—	1	1
Russia	167	—	—	—	—	37	—	77,595	78,315	2	213	215
Spain	—	—	—	—	—	—	—	3,024	3,024	—	8	8
Sweden	—	—	—	—	—	5	—	699	699	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,331	2,443	3	4	7
United Kingdom	533	—	—	203	—	225	—	3,249	11,247	22	9	31
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	3,340	184	59	278	—	67	0	17,245	19,759	7	46	51
Total	9,765	3,412	402	2,696	—	9,619	42	246,783	1,373,626	3,087	676	3,763
Persian Gulf³	—	—	—	—	—	3,635	—	6,508	408,291	1,101	18	1,119

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	99,691	4,046	-	-	-	-	-	-	366	366
Canada	99,691	4,046	-	-	-	-	-	-	366	366
Other	0	0	-	-	-	-	-	-	0	0
Total	99,691	4,046	-	-	-	-	-	-	366	366
	PAD District 5									
OPEC	249,547	-	-	10,687	-	-	-	-	-	-
Algeria	-	-	-	7,217	-	-	-	-	-	-
Angola	11,319	-	-	-	-	-	-	-	-	-
Ecuador	68,984	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	27,522	-	-	-	-	-	-	-	-	-
Kuwait	23,919	-	-	-	-	-	-	-	-	-
Libya	4,170	-	-	685	-	-	-	-	-	-
Nigeria	3,192	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	101,111	-	-	-	-	-	-	-	-	-
United Arab Emirates	6,886	-	-	2,785	-	-	-	-	-	-
Venezuela	397	-	-	-	-	-	-	-	-	-
Non-OPEC	204,837	12,819	2	33,501	-	1,223	1,223	268	10,387	10,655
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Brazil	21,229	-	-	51	-	-	-	-	-	-
Brunei	245	-	-	-	-	-	-	-	-	-
Canada	82,671	12,097	2	1,763	-	721	721	-	5,563	5,563
China	-	-	-	-	-	-	-	-	-	-
Colombia	48,738	-	-	1,721	-	-	-	-	218	218
Finland	-	-	-	98	-	-	-	-	-	-
Germany	-	-	-	215	-	-	-	-	24	24
Indonesia	6,446	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	608	608
Korea, South	-	114	-	-	-	225	225	-	1,237	1,237
Malaysia	456	-	-	1,666	-	-	-	-	70	70
Mexico	14,663	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	59	-	43	43	-	643	643
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	4,965	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	635	-	-	2,083	-	-	-	-	-	-
Singapore	-	-	-	874	-	-	-	-	173	173
Sweden	-	-	-	112	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	719	719
United Kingdom	-	-	-	-	-	25	25	268	957	1,225
Vietnam	661	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	23,480	608	0	24,859	-	209	209	0	175	175
Total	454,384	12,819	2	44,188	-	1,223	1,223	268	10,387	10,655
Persian Gulf ³	159,438	-	-	2,785	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	53	-	-	605	-	-	-	605
Canada	-	-	-	53	-	-	605	-	-	-	605
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	53	-	-	605	-	-	-	605
	PAD District 5										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	1,724	880	4,729	-	4,331	-	98	-	4,429
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	1,724	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	768	220	-	3,058	-	98	-	3,156
China	-	-	-	-	-	-	498	-	-	-	498
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	299	-	-	-	299
Korea, South	-	-	-	83	-	-	476	-	-	-	476
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	29	4,509	-	0	-	0	-	0
Total	-	-	1,724	880	4,729	-	4,331	-	98	-	4,429
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	—	—	—	106	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	98	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	9	—	50	—	—	—	—	—
Canada	—	9	—	—	—	—	—	—	—
Other	—	0	—	50	—	—	—	—	—
Total	—	9	—	156	—	—	—	—	—
	PAD District 5								
OPEC	—	—	—	44	—	—	—	174	174
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	174	174
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	43	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1	—	—	—	—	—
Non-OPEC	55	23	—	34,336	45	—	1,502	14,441	15,943
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	23	—	9	—	—	1,012	1,497	2,509
China	—	—	—	5,179	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Japan	—	—	—	6,016	—	—	—	—	—
Korea, South	55	—	—	23,100	45	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	270	3,762	4,032
Netherlands	—	—	—	—	—	—	—	1,277	1,277
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	220	4,190	4,410
Singapore	—	—	—	—	—	—	—	947	947
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	0	0	—	32	0	—	0	2,768	2,768
Total	55	23	—	34,380	45	—	1,502	14,615	16,117
Persian Gulf ³	—	—	—	43	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	106	106	—	0	0
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	98	98	—	0	0
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	472	1	13	5,615	105,306	273	15	289
Canada	—	—	—	—	472	1	13	5,565	105,256	273	15	288
Other	—	—	—	—	0	0	0	50	50	0	0	1
Total	—	—	—	—	472	1	13	5,721	105,412	273	16	289
	PAD District 5											
OPEC	—	—	—	—	—	—	—	10,905	260,452	684	30	714
Algeria	—	—	—	—	—	—	—	7,217	7,217	—	20	20
Angola	—	—	—	—	—	—	—	—	11,319	31	—	31
Ecuador	—	—	—	—	—	—	—	174	69,158	189	0	189
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	27,522	75	—	75
Kuwait	—	—	—	—	—	—	—	—	23,919	66	—	66
Libya	—	—	—	—	—	—	—	685	4,855	11	2	13
Nigeria	—	—	—	—	—	—	—	—	3,192	9	—	9
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	43	101,154	277	0	277
United Arab Emirates	—	—	—	—	—	—	—	2,785	9,671	19	8	26
Venezuela	—	—	—	—	—	—	—	1	398	1	0	1
Non-OPEC	410	32	411	316	1,495	554	3	123,585	328,422	561	339	900
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	648	2	—	2
Brazil	—	—	—	—	—	—	—	1,775	23,004	58	5	63
Brunei	—	—	—	—	—	—	—	—	245	1	—	1
Canada	23	—	1	316	1,119	66	3	28,359	111,030	226	78	304
China	—	—	307	—	95	—	—	6,079	6,079	—	17	17
Colombia	—	—	—	—	1	—	—	1,940	50,678	134	5	139
Finland	—	—	—	—	—	—	—	98	98	—	0	0
Germany	—	—	—	—	—	—	—	239	239	—	1	1
Indonesia	—	—	—	—	—	—	—	—	6,446	18	—	18
Japan	—	—	100	—	—	2	—	7,025	7,025	—	19	19
Korea, South	36	—	—	—	—	118	—	25,489	25,489	—	70	70
Malaysia	—	—	3	—	209	—	—	1,948	2,404	1	5	7
Mexico	—	—	—	—	—	—	—	4,032	18,695	40	11	51
Netherlands	—	—	—	—	—	—	—	2,022	2,022	—	6	6
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	4,965	14	—	14
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	6,493	7,128	2	18	20
Singapore	—	—	—	—	—	—	—	6,503	6,503	—	18	18
Sweden	—	—	—	—	—	—	—	112	112	—	0	0
Taiwan	306	—	—	—	—	—	—	1,025	1,025	—	3	3
United Kingdom	—	—	—	—	—	—	—	1,250	1,250	—	3	3
Vietnam	—	—	—	—	—	—	—	—	661	2	—	2
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	45	32	0	0	71	368	0	29,196	52,676	63	80	142
Total	410	32	411	316	1,495	554	3	134,490	588,874	1,245	368	1,613
Persian Gulf ³	—	—	—	—	—	—	—	2,828	162,266	437	8	445

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	—	5,907	41,026	23	—	46,955	1,515
Hydrocarbon Gas Liquids	2,919	7,039	37,011	72	900	47,941	1,546
Natural Gas Liquids	2,919	7,039	37,011	72	900	47,941	1,546
Ethane	1,050	2,678	3,531	2	0	7,261	234
Propane	1,756	88	28,383	0	787	31,014	1,000
Normal Butane	19	194	5,062	—	112	5,387	174
Isobutane	0	0	15	—	0	15	0
Natural Gasoline	95	4,079	19	69	2	4,264	138
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	120	2,451	17,508	0	531	20,611	665
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	97	494	5,519	0	292	6,402	207
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	1	1	2,233	0	2	2,237	72
Methyl Tertiary Butyl Ether (MTBE)	—	—	1,247	—	—	1,247	40
Other Oxygenates	1	1	986	0	2	990	32
Renewable Fuels (including Fuel Ethanol) ...	96	493	3,286	—	290	4,165	134
Fuel Ethanol	87	487	3,274	—	282	4,130	133
Biomass-Based Diesel	9	6	12	—	8	35	1
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	20	1,955	10,112	0	38	12,126	391
Naphthas and Lighter	5	1,952	10,011	—	27	11,995	387
Kerosene and Light Gas Oils	15	4	101	0	11	131	4
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	3	2	1,877	0	201	2,084	67
Reformulated	0	—	10	—	0	10	0
Conventional	3	2	1,866	0	201	2,073	67
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	2,469	1,082	94,565	25	12,514	110,655	3,570
Finished Motor Gasoline	83	136	30,255	1	2,349	32,823	1,059
Reformulated	—	—	—	—	—	—	—
Conventional	83	136	30,255	1	2,349	32,823	1,059
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	17	40	4,532	—	816	5,405	174
Kerosene	1	4	133	—	6	143	5
Distillate Fuel Oil	500	171	38,462	—	4,795	43,928	1,417
15 ppm sulfur and under	359	0	34,074	—	3,988	38,421	1,239
Greater than 15 ppm to 500 ppm sulfur	140	71	2,627	—	281	3,120	101
Greater than 500 ppm sulfur	—	100	1,760	—	527	2,387	77
Residual Fuel Oil	647	232	6,367	14	419	7,679	248
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	253	194	2,272	8	363	3,090	100
Waxes	61	19	13	—	5	97	3
Petroleum Coke	836	195	12,023	0	3,731	16,785	541
Asphalt and Road Oil	59	90	496	2	31	677	22
Miscellaneous Products	13	0	13	0	0	26	1
Total	5,508	16,479	190,110	119	13,946	226,162	7,296

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-December 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	4,004	68,956	329,643	853	4,533	407,989	1,118
Hydrocarbon Gas Liquids	42,351	78,260	371,023	2,672	15,112	509,419	1,396
Natural Gas Liquids	42,351	78,260	371,023	2,672	15,112	509,419	1,396
Ethane	13,626	21,173	31,100	2	1	65,901	181
Propane	18,306	2,536	299,021	2	11,146	330,158	905
Normal Butane	1,616	3,806	40,128	204	3,896	49,515	136
Isobutane	9	3	1,365	—	0	1,373	4
Natural Gasoline	8,797	50,758	340	2,465	110	62,471	171
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	12,379	24,077	139,215	99	6,993	182,763	501
Hydrogen/Oxygenates/Renewables/	—	—	—	—	—	—	—
Other Hydrocarbons	961	8,408	48,293	24	2,362	60,047	165
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	15	7	24,954	0	21	24,998	68
Methyl Tertiary Butyl Ether (MTBE)	1	0	13,758	—	0	13,759	38
Other Oxygenates	14	7	11,196	0	21	11,239	31
Renewable Fuels (including Fuel Ethanol) ...	947	8,400	23,339	24	2,340	35,049	96
Fuel Ethanol	852	7,208	22,659	0	2,112	32,831	90
Biomass-Based Diesel	94	1,192	680	23	228	2,218	6
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	10,996	14,570	68,123	74	1,788	95,551	262
Naphthas and Lighter	10,470	14,500	61,759	73	1,719	88,522	243
Kerosene and Light Gas Oils	526	70	6,364	1	69	7,029	19
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	422	1,099	22,799	1	2,843	27,164	74
Reformulated	5	0	84	—	9	99	0
Conventional	417	1,099	22,715	1	2,833	27,065	74
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	58,352	17,748	1,011,053	434	127,461	1,215,049	3,329
Finished Motor Gasoline	3,049	2,026	246,023	9	21,446	272,554	747
Reformulated	—	—	—	—	—	—	—
Conventional	3,049	2,026	246,023	9	21,446	272,554	747
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	1,178	2,411	53,816	—	10,466	67,872	186
Kerosene	652	321	1,248	—	41	2,262	6
Distillate Fuel Oil	24,982	2,926	436,570	—	38,123	502,601	1,377
15 ppm sulfur and under	21,381	12	380,395	—	24,156	425,944	1,167
Greater than 15 ppm to 500 ppm sulfur	3,497	1,211	34,889	—	2,746	42,343	116
Greater than 500 ppm sulfur	103	1,703	21,286	—	11,221	34,313	94
Residual Fuel Oil	15,597	3,363	80,847	221	6,554	106,581	292
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,506	2,303	32,103	135	3,492	40,540	111
Waxes	819	312	275	1	70	1,477	4
Petroleum Coke	8,522	2,613	155,805	1	46,907	213,848	586
Asphalt and Road Oil	906	1,465	4,127	67	357	6,921	19
Miscellaneous Products	143	8	239	0	3	394	1
Total	117,087	189,041	1,850,934	4,059	154,099	2,315,219	6,343

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	483	1	—	158	—	477	477	—	—	—
Australia	—	551	—	—	—	0	0	—	—	—
Bahamas	—	293	—	0	—	40	40	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	271	—	1	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—	—	—
Brazil	—	729	—	829	—	863	863	—	13	13
Canada	12,580	7,223	—	1,959	—	1,447	1,447	—	422	422
Cayman Islands	—	—	—	—	—	10	10	0	—	0
Chile	—	0	—	114	—	408	408	—	—	—
China	8,200	5,460	—	803	—	35	35	—	0	0
Colombia	505	20	—	1,104	—	799	799	—	0	0
Costa Rica	—	39	—	0	—	472	472	—	431	431
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	394	—	26	—	324	324	—	—	—
Ecuador	—	424	—	10	—	1,594	1,594	—	—	—
Egypt	—	485	—	—	—	—	—	—	—	—
El Salvador	—	70	—	0	—	593	593	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	765	560	—	9	—	—	—	—	—	—
Germany	—	0	—	3	—	0	0	—	0	0
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	519	—	—	—	425	425	—	—	—
Greece	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	0	—	1,311	1,311	—	0	0
Honduras	—	564	—	—	—	315	315	—	0	0
Hong Kong	500	—	—	0	—	0	0	—	—	—
India	1,000	2,472	—	479	—	—	—	—	—	—
Indonesia	—	513	—	0	—	0	0	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	0	—	0	—	0	0	—	0	0
Italy	2,197	—	—	—	—	—	—	—	—	—
Jamaica	—	121	—	—	—	3	3	—	—	—
Japan	300	9,623	—	1,880	—	1	1	—	0	0
Korea, South	2,214	1,633	—	13	—	165	165	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	6,433	—	70	—	19,308	19,308	10	720	730
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,073	—	9	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	4,473	1,928	—	1	—	422	422	—	0	0
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	18	—	—	—	165	165	0	—	0
Nigeria	—	—	—	—	—	—	—	—	328	328
Norway	—	736	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	41	—	70	—	870	870	—	0	0
Peru	—	—	—	238	—	728	728	—	0	0
Philippines	—	—	—	0	—	—	—	—	—	—
Portugal	—	233	—	—	—	—	—	—	—	—
Puerto Rico	—	16	—	0	—	2	2	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	6	—	—	—	—	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	993	2,056	—	966	—	264	264	—	—	—
South Africa	—	—	—	—	—	—	—	—	—	—
Spain	2,169	—	—	—	—	—	—	—	—	—
Switzerland	—	380	—	—	—	—	—	—	—	—
Taiwan	1,620	—	—	778	—	1	1	—	—	—
Thailand	175	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	0	0	—	0	0
Turkey	—	200	—	0	—	—	—	—	—	—
United Arab Emirates	727	0	—	0	—	—	—	—	—	—
United Kingdom	5,729	996	—	38	—	0	0	—	0	0
Venezuela	—	0	—	2,560	—	616	616	—	—	—
Other	2,325	1,866	—	2	—	1,165	1,165	—	159	160
Total	46,955	47,941	—	12,126	—	32,823	32,823	10	2,073	2,084

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2017
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	—	—	—	—	594	—	—	—	594
Australia	—	—	0	—	—	—	—	—	—	—	—
Bahamas	—	0	—	—	—	—	775	—	457	—	1,232
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	7	0	44	—	—	—	87	—	—	—	87
Belize	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	1,156	—	—	—	6,630	103	89	—	6,821
Canada	—	0	551	14	—	—	0	938	146	—	1,084
Cayman Islands	—	—	—	—	—	—	65	—	—	—	65
Chile	212	—	0	—	—	—	2,965	—	—	—	2,965
China	51	0	528	—	—	—	2	—	—	—	2
Colombia	—	0	8	—	—	—	176	—	—	—	176
Costa Rica	—	0	0	—	—	—	701	—	—	—	701
Denmark	—	—	—	—	—	—	317	—	—	—	317
Dominican Republic	—	—	1	—	—	—	244	220	105	—	569
Ecuador	—	—	—	—	—	—	1,074	309	264	—	1,647
Egypt	—	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	158	120	—	—	278
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	—	—	—	—	1,158	—	—	—	1,158
Germany	—	0	0	1	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	239	324	—	—	563
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	—	—	—	—	650	275	—	—	925
Honduras	—	—	—	—	—	—	311	70	—	—	381
Hong Kong	—	0	0	—	—	—	—	—	—	—	—
India	—	0	477	—	—	—	0	—	—	—	0
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Ireland	—	—	0	—	—	—	—	—	—	—	—
Israel	—	0	1	0	—	—	0	—	—	—	0
Italy	—	0	—	—	—	—	111	—	—	—	111
Jamaica	—	—	0	—	—	—	265	—	—	—	265
Japan	—	987	0	—	—	—	0	—	—	—	0
Korea, South	—	0	223	—	—	—	2	—	—	—	2
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	977	1	61	1	—	—	9,103	244	44	—	9,391
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	301	—	—	—	301
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	362	—	—	—	3,343	—	—	—	3,343
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	1	—	—	—	1
Nicaragua	—	—	—	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	313	—	—	—	313
Norway	—	—	—	—	—	—	—	—	—	—	—
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	0	—	—	—	—	1,445	45	26	—	1,516
Peru	—	—	63	11	—	—	2,462	155	—	—	2,617
Philippines	—	0	8	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	2	—	—	—	537	0	—	—	537
Romania	—	—	—	—	—	—	320	—	—	—	320
Saudi Arabia	—	—	11	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	319	—	—	—	301	—	481	—	782
South Africa	—	0	—	—	—	—	0	—	—	—	0
Spain	—	—	—	—	—	—	200	—	—	—	200
Switzerland	—	—	—	3	—	—	—	16	—	—	16
Taiwan	—	0	—	—	—	—	0	—	—	—	0
Thailand	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	0	—	—	—	0
United Arab Emirates	—	—	77	—	—	—	—	—	—	—	—
United Kingdom	—	0	0	—	—	—	1,264	—	—	—	1,264
Venezuela	—	0	—	—	—	—	302	—	—	—	302
Other	—	2	238	5	—	—	2,005	301	775	—	3,082
Total	1,247	990	4,130	35	—	—	38,421	3,120	2,387	—	43,928

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2017
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	95	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	37	—	928	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	—	—	—	1	—	190	—	—
Canada	8	—	—	1,595	—	1,412	—	—
Cayman Islands	0	—	—	7	—	—	—	—
Chile	0	—	—	405	—	—	—	—
China	0	—	—	3	—	—	—	—
Colombia	0	—	—	—	—	—	—	—
Costa Rica	0	—	—	200	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	133	—	120	—	—
Ecuador	—	—	—	0	—	745	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	1	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	240	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	105	—	45	—	—
Honduras	—	—	—	—	—	—	—	—
Hong Kong	0	—	—	—	—	0	—	—
India	—	—	—	—	—	531	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	210	—	387	—	—
Japan	—	—	—	0	—	—	—	—
Korea, South	0	—	—	0	—	—	—	—
Lebanon	—	—	—	—	—	245	—	—
Mexico	133	—	—	881	—	1,110	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	513	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	—	—	—	507	—	683	—	—
Peru	0	—	—	—	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	0	—	—	—	—
Romania	—	—	—	—	—	61	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	—	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	0	—	—
Taiwan	—	—	—	—	—	—	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	219	—	2	—	—
United Kingdom	—	—	—	—	—	351	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	2	—	—	1,007	—	115	—	—
Total	143	—	—	5,405	—	7,679	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2017
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	67	6	—	1,398	1,881	16	45	61
Australia	1	233	0	5	—	791	791	—	26	26
Bahamas	—	—	1	3	—	2,535	2,535	—	82	82
Bahrain	0	—	—	4	—	4	4	—	0	0
Belgium	0	116	—	425	1	951	951	—	31	31
Belize	—	—	—	1	—	1	1	—	0	0
Brazil	1	1,112	0	174	1	11,889	11,889	—	384	384
Canada	71	636	143	273	4	16,843	29,423	406	543	949
Cayman Islands	—	—	1	1	—	84	84	—	3	3
Chile	1	1	0	91	0	4,197	4,197	—	135	135
China	3	2,517	2	20	0	9,425	17,625	265	304	569
Colombia	0	0	0	59	0	2,168	2,674	16	70	86
Costa Rica	—	—	51	31	—	1,927	1,927	—	62	62
Denmark	—	174	0	—	—	491	491	—	16	16
Dominican Republic	0	—	70	26	—	1,664	1,664	—	54	54
Ecuador	0	173	0	385	—	4,980	4,980	—	161	161
Egypt	—	303	—	9	0	797	797	—	26	26
El Salvador	—	—	—	6	—	947	947	—	31	31
Finland	—	—	—	0	—	0	0	—	0	0
France	0	166	—	93	0	1,986	2,751	25	64	89
Germany	1	0	1	101	—	109	109	—	4	4
Ghana	—	—	—	1	—	1	1	—	0	0
Gibraltar	—	—	—	—	—	1,747	1,747	—	56	56
Greece	—	—	—	0	—	0	0	—	0	0
Guatemala	—	—	—	16	—	2,404	2,404	—	78	78
Honduras	0	462	103	12	—	1,836	1,836	—	59	59
Hong Kong	0	—	—	3	0	4	504	16	0	16
India	1	1,727	1	246	0	5,934	6,934	32	191	224
Indonesia	0	—	1	2	0	517	517	—	17	17
Ireland	—	—	—	0	0	1	1	—	0	0
Israel	0	303	—	2	—	306	306	—	10	10
Italy	0	336	0	7	0	453	2,650	71	15	85
Jamaica	—	0	—	7	0	994	994	—	32	32
Japan	1	1,682	1	35	4	14,214	14,514	10	459	468
Korea, South	0	266	0	18	0	2,321	4,535	71	75	146
Lebanon	—	116	—	2	—	363	363	—	12	12
Mexico	13	2,546	227	559	13	42,453	42,453	—	1,369	1,369
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	340	—	0	—	1,722	1,722	—	56	56
Mozambique	—	—	—	0	—	0	0	—	0	0
Netherlands	2	35	0	111	0	6,718	11,190	144	217	361
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	99	0	1	—	101	101	—	3	3
Nicaragua	—	165	—	6	—	355	355	—	11	11
Nigeria	—	—	—	97	0	739	739	—	24	24
Norway	—	82	—	0	—	817	817	—	26	26
Pakistan	—	—	—	0	—	0	0	—	0	0
Panama	—	—	—	12	—	3,699	3,699	—	119	119
Peru	0	175	0	45	0	3,877	3,877	—	125	125
Philippines	0	0	—	1	0	10	10	—	0	0
Portugal	0	—	—	0	—	233	233	—	8	8
Puerto Rico	—	—	0	29	—	586	586	—	19	19
Romania	—	290	—	1	—	672	672	—	22	22
Saudi Arabia	—	90	0	3	—	111	111	—	4	4
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	38	0	4,426	5,419	32	143	175
South Africa	0	40	—	34	—	75	75	—	2	2
Spain	1	558	—	1	—	759	2,929	70	24	94
Switzerland	0	—	—	0	—	399	399	—	13	13
Taiwan	0	0	1	5	0	785	2,405	52	25	78
Thailand	0	—	0	3	0	4	179	6	0	6
Trinidad and Tobago	—	0	—	14	—	14	14	—	0	0
Turkey	0	1,471	0	9	—	1,680	1,680	—	54	54
United Arab Emirates	0	0	1	6	—	306	1,033	23	10	33
United Kingdom	0	53	1	1	0	2,707	8,436	185	87	272
Venezuela	—	—	1	2	—	3,480	3,480	—	112	112
Other	1	518	4	48	3	8,197	10,521	75	263	338
Total	97	16,785	677	3,090	26	179,207	226,162	1,515	5,781	7,296

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	2,438	2	—	788	—	2,632	2,632	—	1	1
Australia	223	6,418	—	3	—	4	4	2	1	3
Bahamas	6,271	548	—	314	—	1,584	1,584	0	2	2
Bahrain	—	—	—	—	—	6	6	1	—	1
Belgium	—	815	—	723	—	422	422	—	1	1
Belize	—	0	—	0	—	713	713	—	0	0
Brazil	4,167	19,651	—	5,803	—	11,739	11,739	—	176	176
Canada	118,129	90,387	—	24,167	—	7,593	7,593	—	5,550	5,550
Cayman Islands	—	43	—	0	—	212	212	0	0	0
Chile	—	8,414	—	1,508	—	3,631	3,631	—	2	2
China	81,647	53,813	—	4,851	—	539	539	0	235	235
Colombia	7,941	236	—	14,609	—	9,085	9,085	—	248	248
Costa Rica	—	1,063	—	38	—	6,952	6,952	—	1,453	1,453
Denmark	683	—	—	0	—	193	193	—	0	0
Dominican Republic	1,285	11,517	—	92	—	4,247	4,247	0	602	602
Ecuador	—	5,516	—	324	—	9,498	9,498	0	507	507
Egypt	—	2,667	—	2	—	0	0	—	—	—
El Salvador	—	2,281	—	5	—	4,493	4,493	—	2	2
Finland	—	—	—	0	—	0	0	0	—	0
France	11,051	4,483	—	867	—	1	1	9	0	10
Germany	545	0	—	48	—	3	3	0	1	1
Ghana	—	1,480	—	0	—	966	966	—	0	0
Gibraltar	295	519	—	—	—	425	425	—	—	—
Greece	—	0	—	—	—	1	1	—	—	—
Guatemala	—	3,971	—	56	—	14,571	14,571	—	201	201
Honduras	—	4,406	—	10	—	3,980	3,980	—	569	569
Hong Kong	3,698	1,426	—	2	—	1	1	—	0	0
India	8,040	22,190	—	503	—	1	1	0	0	1
Indonesia	—	7,255	—	19	—	0	0	0	—	0
Ireland	—	—	—	0	—	1	1	—	—	—
Israel	—	4	—	22	—	8	8	—	1	1
Italy	15,754	235	—	709	—	—	—	—	—	—
Jamaica	—	620	—	0	—	920	920	—	1	1
Japan	10,052	80,093	—	4,803	—	155	155	5	7	12
Korea, South	20,743	32,766	—	2,133	—	777	777	0	1	1
Lebanon	—	—	—	0	—	0	0	—	—	—
Mexico	—	50,296	—	4,743	—	153,527	153,527	76	15,177	15,253
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	4,179	—	73	—	—	—	—	—	—
Mozambique	—	551	—	—	—	—	—	—	—	—
Netherlands	30,894	14,230	—	8,519	—	2,253	2,253	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	5	—	0	—	1	1	0	0	0
Nicaragua	801	18	—	0	—	1,883	1,883	0	0	0
Nigeria	—	—	—	1	—	959	959	—	328	328
Norway	1,350	10,049	—	—	—	1	1	0	—	0
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,125	3,164	—	120	—	8,786	8,786	—	198	198
Peru	1,719	513	—	484	—	6,540	6,540	—	246	246
Philippines	—	—	—	2	—	—	—	—	0	0
Portugal	—	2,321	—	—	—	1	1	—	—	—
Puerto Rico	—	105	—	3	—	325	325	1	11	12
Romania	—	—	—	—	—	0	0	—	—	—
Saudi Arabia	—	0	—	42	—	4	4	1	0	1
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	10,661	21,351	—	2,330	—	403	403	0	0	0
South Africa	500	179	—	1	—	299	299	—	0	0
Spain	8,020	3,394	—	0	—	0	0	—	238	238
Switzerland	620	957	—	0	—	458	458	—	0	0
Taiwan	4,753	275	—	2,507	—	5	5	—	234	234
Thailand	3,371	1	—	16	—	—	—	—	0	0
Trinidad and Tobago	568	4	—	43	—	1	1	1	0	1
Turkey	508	4,068	—	0	—	—	—	1	0	1
United Arab Emirates	727	255	—	43	—	2	2	0	0	0
United Kingdom	36,621	13,906	—	195	—	8	8	0	1	1
Venezuela	—	253	—	12,717	—	5,551	5,551	—	577	577
Other	12,789	16,526	—	1,313	—	6,194	6,194	2	460	460
Total	407,989	509,419	—	95,551	—	272,554	272,554	99	27,065	27,164

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2017
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	0	2	—	—	—	11,563	740	1,301	—	13,605
Australia	0	0	1	—	—	—	319	—	1	—	320
Bahamas	—	3	2	—	—	—	2,095	75	3,848	—	6,019
Bahrain	—	—	0	—	—	—	0	—	—	—	0
Belgium	82	0	117	0	—	—	2,577	278	1,046	—	3,900
Belize	—	—	0	—	—	—	25	148	—	—	173
Brazil	0	0	10,613	2	—	—	70,642	4,978	661	—	76,281
Canada	—	6	7,815	1,916	—	—	10	5,221	2,767	—	7,998
Cayman Islands	—	—	0	—	—	—	1,437	0	0	—	1,437
Chile	2,608	0	3	—	—	—	35,363	287	260	—	35,909
China	51	2	587	0	—	—	285	—	0	—	285
Colombia	—	0	429	—	—	—	6,651	1	—	—	6,652
Costa Rica	—	0	2	—	—	—	9,415	—	0	—	9,415
Denmark	—	—	—	—	—	—	365	125	—	—	490
Dominican Republic	—	—	9	—	—	—	2,862	1,329	732	—	4,923
Ecuador	—	0	0	—	—	—	10,290	2,695	528	—	13,513
Egypt	—	0	1	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	918	2,780	0	—	3,698
Finland	—	—	—	—	—	—	300	—	—	—	300
France	—	2	4	—	—	—	19,666	329	363	—	20,358
Germany	0	0	1	12	—	—	1,558	—	—	—	1,558
Ghana	—	—	0	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	6,098	2,180	807	—	9,085
Greece	—	—	1	—	—	—	—	—	—	—	—
Guatemala	—	0	0	—	—	—	14,288	4,726	694	—	19,708
Honduras	—	—	0	—	—	—	3,293	1,673	113	—	5,080
Hong Kong	—	0	1	—	—	—	1	—	—	—	1
India	0	0	4,111	—	—	—	3	—	—	—	3
Indonesia	—	0	0	—	—	—	—	—	—	—	—
Ireland	0	0	2	—	—	—	—	—	—	—	—
Israel	—	0	2	0	—	—	2	—	—	—	2
Italy	—	0	0	4	—	—	1,124	20	—	—	1,144
Jamaica	—	—	479	—	—	—	2,522	75	956	—	3,553
Japan	—	11,196	10	—	—	—	2	—	—	—	2
Korea, South	0	1	1,034	2	—	—	10	—	851	—	860
Lebanon	—	0	—	—	—	—	0	409	281	—	690
Mexico	9,021	11	714	87	—	—	88,818	2,118	407	—	91,342
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	5,953	—	—	—	5,953
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	56	3	798	12	—	—	28,836	2,240	797	—	31,872
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	1	—	—	—	1	—	—	—	1
Nicaragua	—	—	0	4	—	—	268	1,183	566	—	2,017
Nigeria	—	—	492	—	—	—	313	—	—	—	313
Norway	—	0	0	4	—	—	11	—	—	—	11
Pakistan	—	0	0	—	—	—	—	—	—	—	—
Panama	—	0	0	0	—	—	13,923	2,166	912	—	17,001
Peru	—	0	862	145	—	—	25,434	722	415	—	26,571
Philippines	—	0	1,572	—	—	—	0	0	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	2	271	0	—	—	2,104	294	1	—	2,399
Romania	—	—	—	—	—	—	631	—	—	—	631
Saudi Arabia	1	0	117	—	—	—	1	—	—	—	1
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	8	684	3	—	—	6,352	—	6,178	—	12,529
South Africa	—	0	—	0	—	—	1,013	—	—	—	1,013
Spain	—	—	320	1	—	—	4,015	260	555	—	4,830
Switzerland	—	—	174	22	—	—	332	165	—	—	496
Taiwan	0	0	2	—	—	—	1	—	0	—	1
Thailand	—	0	0	—	—	—	2	—	0	—	2
Trinidad and Tobago	—	0	0	0	—	—	1	—	0	—	1
Turkey	—	0	—	—	—	—	376	—	—	—	376
United Arab Emirates	—	0	942	—	—	—	4	—	—	—	4
United Kingdom	—	1	102	—	—	—	13,527	0	423	—	13,951
Venezuela	1,940	0	0	1	—	—	4,014	285	1,064	—	5,363
Other	—	4	554	3	—	—	26,330	4,841	7,786	—	38,961
Total	13,759	11,239	32,831	2,218	—	—	425,944	42,343	34,313	—	502,601

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2017
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	0	—	—	570	—	37	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	460	—	6,099	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	84	—	—
Belize	0	—	—	25	—	—	—	—
Brazil	0	—	—	1,717	—	635	—	—
Canada	1,217	—	—	13,959	—	13,766	—	—
Cayman Islands	57	—	—	1,541	—	1	—	—
Chile	8	—	—	3,020	—	0	—	—
China	6	—	—	7	—	1,689	—	—
Colombia	4	—	—	847	—	301	—	—
Costa Rica	0	—	—	1,587	—	401	—	—
Denmark	—	—	—	662	—	—	—	—
Dominican Republic	0	—	—	2,112	—	391	—	—
Ecuador	—	—	—	98	—	4,476	—	—
Egypt	—	—	—	—	—	887	—	—
El Salvador	0	—	—	361	—	—	—	—
Finland	189	—	—	307	—	—	—	—
France	48	—	—	942	—	—	—	—
Germany	0	—	—	—	—	4	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	—	—	1,890	—	—
Greece	—	—	—	—	—	0	—	—
Guatemala	97	—	—	1,107	—	1,191	—	—
Honduras	50	—	—	635	—	3,048	—	—
Hong Kong	1	—	—	0	—	0	—	—
India	0	—	—	1	—	531	—	—
Indonesia	—	—	—	0	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	1,427	—	—	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	1,233	—	4,043	—	—
Japan	1	—	—	1	—	1	—	—
Korea, South	0	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	6,012	—	—
Mexico	164	—	—	14,479	—	13,530	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	1,165	—	578	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	3	—	—	2,569	—	4,023	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	35	—	0	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	—	—
Panama	0	—	—	6,555	—	5,959	—	—
Peru	101	—	—	2,502	—	192	—	—
Philippines	—	—	—	0	—	0	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	7	—	—	177	—	4	—	—
Romania	—	—	—	—	—	61	—	—
Saudi Arabia	1	—	—	—	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	1	—	27,295	—	—
South Africa	—	—	—	304	—	380	—	—
Spain	—	—	—	0	—	0	—	—
Switzerland	—	—	—	—	—	0	—	—
Taiwan	0	—	—	1	—	5	—	—
Thailand	0	—	—	—	—	405	—	—
Trinidad and Tobago	0	—	—	5	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	4	—	—	220	—	303	—	—
United Kingdom	—	—	—	1,050	—	1,255	—	—
Venezuela	—	—	—	22	—	648	—	—
Other	302	—	—	6,167	—	6,456	—	—
Total	2,262	—	—	67,872	—	106,581	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2017
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	4	534	326	2,807	0	21,307	23,745	7	58	65
Australia	7	2,397	85	153	1	9,391	9,614	1	26	26
Bahamas	0	—	36	422	0	15,490	21,761	17	42	60
Bahrain	0	—	—	8	—	16	16	—	0	0
Belgium	4	1,968	2	3,897	3	12,020	12,020	—	33	33
Belize	—	—	0	14	—	926	926	—	3	3
Brazil	6	12,687	1	2,821	6	142,138	146,306	11	389	401
Canada	969	7,403	2,309	3,389	46	188,490	306,618	324	516	840
Cayman Islands	—	—	11	16	—	3,319	3,319	—	9	9
Chile	5	2	534	1,022	1	56,665	56,665	—	155	155
China	106	20,682	39	784	8	83,683	165,330	224	229	453
Colombia	3	2	114	1,110	3	33,643	41,584	22	92	114
Costa Rica	1	659	307	222	0	22,103	22,103	—	61	61
Denmark	0	862	2	204	—	2,413	3,096	2	7	8
Dominican Republic	2	1,025	477	265	1	25,664	26,949	4	70	74
Ecuador	1	1,505	1	887	0	36,328	36,328	—	100	100
Egypt	0	4,575	69	37	0	8,240	8,240	—	23	23
El Salvador	1	427	0	233	—	11,501	11,501	—	32	32
Finland	0	275	0	7	0	1,079	1,079	—	3	3
France	3	2,068	0	934	0	29,721	40,772	30	81	112
Germany	21	311	9	1,166	1	3,134	3,679	1	9	10
Ghana	0	—	—	3	—	2,450	2,450	—	7	7
Gibraltar	—	—	188	1,624	—	13,731	14,026	1	38	38
Greece	0	4,588	1	5	—	4,595	4,595	—	13	13
Guatemala	1	1,932	0	263	—	43,100	43,100	—	118	118
Honduras	0	2,070	239	141	—	20,229	20,229	—	55	55
Hong Kong	5	0	0	31	2	1,471	5,168	10	4	14
India	20	35,968	12	1,004	2	64,347	72,387	22	176	198
Indonesia	1	0	17	36	1	7,329	7,329	—	20	20
Ireland	0	714	—	1	0	718	718	—	2	2
Israel	1	2,039	—	976	0	4,482	4,482	—	12	12
Italy	2	5,651	1	123	2	7,872	23,627	43	22	65
Jamaica	0	0	1	139	2	10,992	10,992	—	30	30
Japan	12	20,935	6	229	33	117,489	127,541	28	322	349
Korea, South	2	6,305	59	267	6	44,214	64,957	57	121	178
Lebanon	0	1,368	—	15	—	8,084	8,084	—	22	22
Mexico	196	24,910	1,410	7,756	120	387,558	387,558	—	1,062	1,062
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	5,010	—	1	—	16,959	16,959	—	46	46
Mozambique	—	711	—	0	—	1,263	1,263	—	3	3
Netherlands	40	1,852	10	769	11	67,055	97,949	85	184	268
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	656	34	11	0	710	710	—	2	2
Nicaragua	0	165	0	68	—	4,192	4,993	2	11	14
Nigeria	—	—	—	973	0	3,067	3,067	—	8	8
Norway	0	1,071	1	4	0	11,142	12,492	4	31	34
Pakistan	0	0	1	5	0	7	7	—	0	0
Panama	0	—	213	444	114	42,556	43,681	3	117	120
Peru	1	535	2	764	1	39,459	41,178	5	108	113
Philippines	1	1,126	—	13	2	2,716	2,716	—	7	7
Portugal	0	1,242	—	1	—	3,565	3,565	—	10	10
Puerto Rico	1	0	2	192	0	3,501	3,501	—	10	10
Romania	0	481	—	3	—	1,175	1,175	—	3	3
Saudi Arabia	1	637	3	85	0	893	893	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2	397	0	818	1	65,824	76,485	29	180	210
South Africa	1	408	1	698	—	3,284	3,784	1	9	10
Spain	5	6,880	30	11	0	15,709	23,729	22	43	65
Switzerland	0	—	—	0	0	2,107	2,727	2	6	7
Taiwan	30	233	7	77	1	3,379	8,131	13	9	22
Thailand	1	0	12	53	3	493	3,865	9	1	11
Trinidad and Tobago	0	1	0	95	0	152	720	2	0	2
Turkey	0	19,612	1	220	0	24,279	24,787	1	67	68
United Arab Emirates	0	307	4	428	0	2,512	3,239	2	7	9
United Kingdom	3	939	4	94	1	31,509	68,130	100	86	187
Venezuela	0	259	3	923	0	28,256	28,256	—	77	77
Other	18	7,464	337	779	22	85,535	98,323	34	236	270
Total	1,477	213,848	6,921	40,540	394	1,907,231	2,315,219	1,118	5,225	6,343

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,618	-14	-	68	-	-71	-71	-	16	16
Algeria	31	-	-	117	-	-	-	-	-	-
Angola	167	-	-	0	-	-	-	-	4	4
Ecuador	253	-14	-	0	-	-51	-51	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	605	-	-	-	-	-	-	-	-	-
Kuwait	78	-	-	-	-	-	-	-	-	-
Libya	55	-	-	15	-	-	-	-	-	-
Nigeria	296	-	-	-	-	-	-	-	-1	-1
Qatar	-	-	-	-	-	0	0	-	-	-
Saudi Arabia	690	0	-	5	-	-	-	-	0	0
United Arab Emirates	5	0	-	15	-	-	-	-	-	-
Venezuela	437	0	-	-83	-	-20	-20	-	13	13
Non-OPEC	3,650	-1,333	30	252	-	-955	-955	169	145	314
Argentina	-16	0	-	-5	-	-15	-15	-	3	3
Aruba	-	0	-	-	-	-2	-2	-	-	-
Australia	-	-18	-	-	-	0	0	-	-	-
Bahamas	-	-9	-	0	-	-1	-1	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-9	-	85	-	-	-	-	-	-
Brazil	122	-24	-	-13	-	-28	-28	-	10	10
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	8	-	-	-	-	-	-
Canada	3,246	-35	25	-32	-	-28	-28	110	55	165
Chad	48	-	-	-	-	-	-	-	-	-
China	-265	-176	-	-26	-	-1	-1	-	0	0
Colombia	303	-1	-	-28	-	-26	-26	-	20	20
Denmark	-	-	-	11	-	-	-	-	-	-
Dominican Republic	-	-13	-	-1	-	-10	-10	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	-	-	-	-	-	-	-
France	-25	-18	-	0	-	-	-	19	-	19
Germany	-	0	-	5	-	2	2	-	0	0
Guatemala	-	-	-	0	-	-42	-42	-	0	0
Honduras	-	-18	-	-	-	-10	-10	-	0	0
India	-32	-80	-	-7	-	-	-	-	17	17
Indonesia	41	-17	-	0	-	0	0	-	-	-
Italy	-71	-	-	-	-	-	-	-	-	-
Japan	-10	-310	-	-61	-	0	0	-	0	0
Korea, South	-71	-51	-	0	-	-5	-5	0	-	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	5	5
Malaysia	15	-	-	0	-	-	-	-	0	0
Mexico	726	-208	1	2	-	-623	-623	0	-23	-24
Netherlands	-144	-62	-	39	-	-14	-14	-	5	5
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-24	-	7	-	-	-	-	-	-
Oman	53	-	-	0	-	-	-	-	-	-
Panama	-	-1	-	-2	-	-28	-28	-	0	0
Portugal	-	-8	-	-	-	9	9	9	18	27
Puerto Rico	-	-1	-	0	-	0	0	-	0	0
Russia	47	-	-	268	-	3	3	-	26	26
Spain	-70	-	-	-	-	-	-	-	17	17
Sweden	-	-10	-	2	-	-	-	-	-	-
Trinidad and Tobago	12	0	-	11	-	0	0	-	0	0
United Kingdom	-131	-32	-	-1	-	0	0	31	0	31
Vietnam	7	-	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	0	-	-	-	-10	-10	-	-5	-5
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-135	-208	4	-10	-	-126	-126	0	-3	-2
Total	6,267	-1,347	30	320	-	-1,027	-1,027	169	161	330
Persian Gulf²	1,378	0	-	19	-	0	0	-	0	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	0	-3	-	-	-	-14	-10	-9	15	-18
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-35	-10	-9	-	-53
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	6	-	-	-	6
Qatar	-	-	0	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	0	-	-	-	24	-	-	-	24
United Arab Emirates	-	-	-2	-	-	-	-	-	-	-	-
Venezuela	-	0	-	-	-	-	-10	-	-	15	5
Non-OPEC	-37	-26	-130	15	10	-	-1,045	-80	-11	19	-1,117
Argentina	1	-	-	-	-	-	-19	-	0	-	-19
Aruba	-	-	-	0	-	-	-1	-	-	-	-1
Australia	-	-	0	-	-	-	-	-	-	-	-
Bahamas	-	0	-	-	-	-	-25	-	-1	-	-26
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	0	-1	-	-	-	12	-	-	-	12
Brazil	2	3	-37	-	-	-	-214	6	-3	-	-211
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-18	6	-	-	104	-29	31	7	113
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-2	0	-17	-	-	-	15	-	-	-	15
Colombia	-	0	0	-	-	-	-1	-	-	-	-1
Denmark	-	-	-	-	-	-	-10	-	-	-	-10
Dominican Republic	-	-	0	-	-	-	-8	-7	-3	-	-18
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-37	-	-	-	-37
Germany	-	0	0	9	-	-	0	-	-	-	0
Guatemala	-	0	-	-	-	-	-21	-9	-	-	-30
Honduras	-	-	-	-	-	-	-10	-2	-	-	-12
India	-	0	-15	-	-	-	0	-	-	-	0
Indonesia	-	0	-	-	-	-	-	-	-	-	-
Italy	-	0	-	-	-	-	-4	-	0	-	-3
Japan	-	-32	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-7	1	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	0	-	-	-	0
Mexico	-32	0	-2	0	-	-	-294	-8	-1	-	-303
Netherlands	-	3	-12	-	-	-	-108	-	1	-	-107
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-8	-	-	-	0	-	-	-	0
Panama	-	0	-	-	-	-	-47	-1	-1	-	-49
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	-17	0	-	-	-17
Russia	-	-	-	-	-	-	-	-	5	12	17
Spain	-	-	-	-	-	-	-6	-	-	-	-6
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	0	-	0	-	-	-	-	-	-	-
United Kingdom	-	0	0	-	-	-	-41	-	-	-	-41
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-40	-	-16	-	-57
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	0	-13	-1	10	-	-273	-30	-23	0	-326
Total	-37	-26	-133	15	10	-	-1,059	-90	-19	34	-1,135
Persian Gulf²	-	-	-3	-	-	-	24	-	-	-	24

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	17	2	-4	-	-
Algeria	-	-	-	-	1	-	-	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-24	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	0	-	3	-	-
Nigeria	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	0	-	-	-
United Arab Emirates	0	-	-	-7	-	0	-	-
Venezuela	-	-	-	24	-	17	-	-
Non-OPEC	-5	1	-	-41	16	-56	15	3
Argentina	-	-	-	-3	-	-	-	-
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-30	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	0	-
Brazil	-	-	-	0	1	-6	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	0	0	-	-36	5	7	3	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	27	-	-	-	-
Colombia	0	-	-	4	-	3	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-4	-	-4	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	0	-	-
Guatemala	-	-	-	-3	-	-1	-	-
Honduras	-	-	-	-	-	-	-	-
India	-	-	-	16	-	-17	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	17	2	-	2	-
Korea, South	0	-	-	45	9	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	-4	-	-	-28	-	-8	8	-
Netherlands	-	1	-	-	-	-6	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	-	-	-	-16	-	-22	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	0	-	-	-	-
Russia	0	-	-	-	-	27	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	21	-	-
United Kingdom	-	-	-	-	-	-11	1	-
Vietnam	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-9	-	-4	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-48	-1	-5	1	0
Total	-5	1	-	-24	18	-60	15	3
Persian Gulf²	0	-	-	-7	0	0	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-11	7	-4	0	-14	2,603
Algeria	—	—	—	—	—	119	149
Angola	—	-2	—	—	—	2	169
Ecuador	0	-6	0	-12	—	-161	93
Equatorial Guinea	—	—	—	0	—	0	0
Gabon	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	—	0	605
Kuwait	—	0	0	0	—	0	78
Libya	—	—	—	0	—	18	73
Nigeria	—	—	—	-3	0	3	299
Qatar	0	0	—	10	—	10	10
Saudi Arabia	—	-3	0	0	—	25	716
United Arab Emirates	0	0	0	2	—	7	11
Venezuela	—	—	7	0	—	-36	400
Non-OPEC	0	-520	6	-56	-1	-3,615	35
Argentina	0	0	-2	0	—	-41	-56
Aruba	—	—	—	0	—	-5	-5
Australia	0	-8	0	0	—	-26	-26
Bahamas	—	—	0	0	—	-68	-68
Bahrain	0	—	—	2	—	2	2
Belgium	0	-4	—	-13	0	70	70
Brazil	0	-31	0	-6	0	-340	-217
Brunei	—	0	—	0	—	0	0
Cameroon	—	—	—	—	—	8	8
Canada	-2	-19	20	1	0	177	3,422
Chad	—	—	—	0	—	0	48
China	1	-81	3	-1	0	-258	-522
Colombia	0	5	0	-2	0	-26	277
Denmark	—	-6	0	—	—	-5	-5
Dominican Republic	0	—	-2	-1	—	-54	-54
Estonia	—	—	—	0	—	0	0
Finland	—	—	—	0	—	0	0
France	0	-5	—	-2	0	-44	-68
Germany	0	0	0	-3	—	13	13
Guatemala	—	—	—	-1	—	-78	-78
Honduras	0	-15	-3	0	—	-59	-59
India	0	-56	0	-8	0	-150	-182
Indonesia	0	—	0	2	0	-15	26
Italy	0	-11	0	0	0	-14	-85
Japan	1	-54	0	-1	0	-437	-447
Korea, South	0	-9	0	9	0	-9	-80
Latvia	—	—	—	0	—	0	0
Lithuania	0	—	—	0	—	5	5
Malaysia	1	—	—	0	0	1	16
Mexico	0	-82	-7	-18	0	-1,328	-603
Netherlands	0	-1	0	-4	0	-158	-302
Netherlands Antilles	—	—	—	—	—	—	—
Norway	—	-3	—	0	—	-19	-19
Oman	—	-2	—	0	—	-10	43
Panama	—	—	—	0	—	-119	-119
Portugal	0	—	—	0	—	29	29
Puerto Rico	—	—	0	-1	—	-19	-19
Russia	0	—	—	0	—	341	389
Spain	0	-18	—	0	—	-8	-78
Sweden	0	0	—	0	—	-8	-8
Trinidad and Tobago	—	0	—	0	—	32	43
United Kingdom	0	-2	0	2	0	-53	-184
Vietnam	0	—	—	0	0	0	7
Virgin Islands, U.S.	—	—	0	0	—	-84	-84
Yemen	—	—	—	0	—	0	0
Other	-1	-118	-3	-11	-1	-858	-995
Total	0	-531	13	-60	-1	-3,629	2,638
Persian Gulf²	0	-3	0	14	—	45	1,423

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,110	-16	-	115	-	-44	-44	0	36	36
Algeria	66	-	-	120	-	-	-	-	0	0
Angola	129	-	-	2	-	-	-	-	3	3
Ecuador	207	-15	-	-1	-	-26	-26	0	-1	-1
Equatorial Guinea	12	0	-	-	-	-	-	-	-	-
Gabon	4	-	-	2	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	602	-	-	3	-	-	-	-	-	-
Kuwait	144	0	-	0	-	0	0	-	0	0
Libya	57	0	-	6	-	-	-	-	-	-
Nigeria	309	-	-	4	-	-3	-3	-	18	18
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	943	0	-	2	-	0	0	0	0	0
United Arab Emirates	18	-1	-	10	-	0	0	0	0	0
Venezuela	618	0	-	-33	-	-15	-15	-	16	16
Non-OPEC	3,684	-1,219	29	253	-	-671	-671	211	283	494
Argentina	-7	0	-	-2	-	-7	-7	-	3	3
Aruba	-	-20	-	0	-	-1	-1	-	0	0
Australia	1	-18	-	0	-	0	0	0	0	0
Bahamas	-17	-2	-	1	-	-4	-4	0	0	0
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-2	0	39	-	1	1	2	7	9
Brazil	186	-54	-	-12	-	-32	-32	-	5	5
Brunei	1	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	1	-	0	0	-	0	0
Canada	3,097	-99	25	-56	-	-6	-6	115	51	166
Chad	29	-	-	-	-	-	-	-	-	-
China	-224	-147	-	-13	-	-1	-1	0	-1	-1
Colombia	311	0	-	-34	-	-25	-25	-	8	8
Denmark	1	-	-	5	-	-1	-1	0	1	1
Dominican Republic	-4	-31	-	0	-	-12	-12	0	-2	-2
Estonia	-	-	-	0	-	-	-	1	0	1
Finland	-	-	-	1	-	1	1	0	7	7
France	-30	-12	-	5	-	0	0	15	11	26
Germany	-1	0	-	3	-	1	1	0	1	1
Guatemala	8	-11	-	0	-	-40	-40	-	-1	-1
Honduras	-	-12	-	0	-	-11	-11	-	-2	-2
India	-22	-61	-	10	-	0	0	1	52	53
Indonesia	18	-20	-	0	-	0	0	0	-	0
Italy	-43	-1	-	0	-	1	1	1	11	11
Japan	-28	-219	-	-13	-	0	0	0	2	2
Korea, South	-57	-89	-	-6	-	-2	-2	0	7	7
Latvia	-	-	-	-	-	-	-	-	0	0
Lithuania	-	-	-	0	-	-	-	1	4	4
Malaysia	-14	-	-	5	-	-1	-1	-	1	1
Mexico	608	-135	1	-12	-	-420	-420	0	-37	-38
Netherlands	-85	-39	-	-2	-	-5	-5	9	22	31
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	33	-25	-	20	-	1	1	3	8	12
Oman	14	-	-	-2	-	-	-	-	-	-
Panama	-3	-9	-	0	-	-24	-24	-	-1	-1
Portugal	-	-6	-	0	-	2	2	4	20	24
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Russia	49	0	-	268	-	1	1	1	41	42
Spain	-22	-9	-	11	-	0	0	0	32	32
Sweden	-	-2	-	4	-	1	1	0	3	3
Trinidad and Tobago	6	1	-	5	-	0	0	0	2	2
United Kingdom	-77	-37	-	4	-	4	4	55	20	75
Vietnam	2	-	-	0	-	-	-	0	0	0
Virgin Islands, U.S.	-	-3	-	-	-	-4	-4	-	-1	-1
Yemen	2	-	-	-	-	0	0	-	-	-
Other	-48	-157	3	23	-	-87	-87	3	9	14
Total	6,794	-1,235	29	368	-	-715	-715	211	319	530
Persian Gulf²	1,708	-1	-	15	-	0	0	0	0	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-5	0	-4	0	-	-	-36	-9	-4	1	-48
Algeria	-	-	-	-	-	-	-1	-1	-1	-	-2
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-28	-7	-1	-	-37
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	0	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-1	-	-	-	1	-	-	-	1
Qatar	-	-	0	0	-	-	0	-	-	-	0
Saudi Arabia	0	0	0	-	-	-	2	-	-	-	2
United Arab Emirates	-	0	-3	-	-	-	0	-	-	-	0
Venezuela	-5	0	0	0	-	-	-11	-1	-2	1	-12
Non-OPEC	-27	-26	-81	20	13	-	-1,031	-105	-49	5	-1,181
Argentina	1	0	0	19	-	-	-32	-2	-4	-	-37
Aruba	-	-	-	0	-	-	-6	-	0	-	-6
Australia	0	0	0	-	-	-	-1	-	0	-	-1
Bahamas	-	0	0	-	-	-	-6	0	-8	-	-14
Bahrain	-	-	0	-	-	-	0	-	-	-	0
Belgium	0	0	0	0	-	-	-6	-1	-2	1	-8
Brazil	1	4	-24	0	-	-	-194	-13	0	-	-206
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-21	0	1	-	79	-13	21	1	88
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-2	0	-	-	2	-	0	-	2
Colombia	-	0	-1	-	-	-	-17	0	0	-	-17
Denmark	-	-	-	-	-	-	-1	0	-	-	-1
Dominican Republic	-	-	0	-	-	-	-8	-4	-2	-	-13
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-1	-	-	-	-1
France	-	0	0	-	-	-	-54	-1	-1	0	-55
Germany	0	0	0	1	-	-	-4	-	-	-	-4
Guatemala	-	0	0	-	-	-	-39	-13	-2	-	-54
Honduras	-	-	0	-	-	-	-9	-5	0	-	-14
India	0	0	-11	-	-	-	9	-	0	0	10
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	0	0	0	-	-	-3	0	0	-	-3
Japan	-	-31	0	-	-	-	1	-	-	-	1
Korea, South	0	0	-3	0	-	-	1	-	-2	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-8	-	-8
Mexico	-25	0	-2	0	-	-	-243	-6	-1	-	-250
Netherlands	2	1	-2	0	-	-	-79	-6	-2	-	-87
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	0	-	-	0	-	-	-	0
Oman	-	-	-1	-	-	-	0	-	-	-	0
Panama	-	0	0	0	-	-	-38	-6	-2	-	-47
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-1	0	-	-	-6	-1	0	-	-7
Russia	-	0	-	-	-	-	0	0	2	2	4
Spain	-	-	-1	0	-	-	-11	-1	-1	-	-13
Sweden	-	-	0	-	-	-	0	-	0	-	0
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-37	0	-1	-	-38
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-12	-1	-8	-	-21
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	0	-12	0	12	-	-316	-32	-29	1	-381
Total	-32	-26	-85	20	13	-	-1,068	-114	-53	6	-1,228
Persian Gulf²	0	0	-3	0	-	-	2	-	-	-	2

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	17	0	3	1	-
Algeria	-	-	-	0	0	1	1	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-12	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	0	-	0	-	-
Libya	0	-	-	0	-	2	-	-
Nigeria	-	-	-	0	-	-	0	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	2	0	0	-	-
United Arab Emirates	0	-	-	0	-	-1	-	-
Venezuela	-	-	-	15	-	12	-	-
Non-OPEC	-3	0	-	-42	14	-107	30	12
Argentina	0	-	-	-2	-	2	-	1
Aruba	0	-	-	-1	-	-3	-1	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-15	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	0	0	0	-
Brazil	0	-	-	-5	1	0	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-3	0	-	-19	5	-2	3	2
Chad	-	-	-	0	-	-	-	-
China	0	-	-	15	-	-5	-	-
Colombia	0	-	-	-2	-	6	5	-
Denmark	-	-	-	-2	-	-	-	-
Dominican Republic	0	-	-	-6	-	-1	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-1	-	-	-1	-	-	-	-
France	0	-	-	-3	0	1	0	1
Germany	0	-	-	-	0	0	0	-
Guatemala	0	-	-	-3	-	-3	-	-
Honduras	0	-	-	-2	-	-8	-	-
India	0	-	-	8	-	-1	-	-
Indonesia	-	-	-	0	-	-	-	-
Italy	-	-	-	0	0	1	0	-
Japan	3	-	-	16	3	0	1	-
Korea, South	0	-	-	79	4	0	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	1	-	0	-	-
Mexico	0	-	-	-40	1	17	9	-
Netherlands	0	0	-	-7	0	-6	0	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	0	-	-	-	7
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-18	-	-16	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	0	-	-	1	-	19	0	-
Spain	-	-	-	0	-	0	-	-
Sweden	-1	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	18	-	-
United Kingdom	-	-	-	-3	-	-3	2	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-9	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-45	0	-100	10	1
Total	-3	0	-	-25	15	-104	31	12
Persian Gulf²	0	-	-	3	0	-1	-	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-8	3	0	0	51	3,161
Algeria	—	—	0	1	—	121	187
Angola	—	0	0	0	—	5	134
Ecuador	0	-4	0	-2	0	-99	108
Equatorial Guinea	—	—	—	0	—	0	12
Gabon	—	—	0	0	—	2	6
Iran	—	—	—	0	—	0	0
Iraq	—	—	0	0	—	3	605
Kuwait	0	0	0	0	0	0	145
Libya	—	—	—	0	—	8	65
Nigeria	—	—	—	-3	0	17	326
Qatar	0	-1	—	6	—	6	6
Saudi Arabia	0	-2	0	0	0	3	946
United Arab Emirates	0	-1	0	1	0	6	25
Venezuela	0	0	4	-3	0	-22	596
Non-OPEC	1	-569	16	-70	-1	-3,113	571
Argentina	0	2	-1	-8	0	-29	-36
Aruba	—	—	0	0	—	-32	-32
Australia	0	-7	0	0	0	-26	-25
Bahamas	0	—	0	-1	0	-36	-53
Bahrain	0	—	—	2	—	2	2
Belgium	0	-5	0	-9	0	25	25
Brazil	0	-34	0	-8	0	-363	-177
Brunei	—	0	—	0	—	0	1
Cameroon	0	—	0	0	—	1	1
Canada	-1	-19	22	1	0	86	3,183
Chad	—	—	—	0	—	0	29
China	1	-56	0	-2	0	-209	-433
Colombia	0	1	0	-3	0	-62	249
Denmark	0	-2	0	-1	—	-1	1
Dominican Republic	0	-3	-1	-1	0	-70	-73
Estonia	0	0	—	0	—	1	1
Finland	0	-1	0	1	0	6	6
France	0	-6	0	-2	0	-45	-75
Germany	0	-1	0	-2	0	-1	-3
Guatemala	0	-5	0	-1	—	-118	-110
Honduras	0	-6	-1	0	—	-55	-55
India	0	-99	0	-3	0	-94	-116
Indonesia	0	0	0	2	0	-18	-1
Italy	0	-15	0	0	0	-5	-48
Japan	0	-57	0	-1	0	-296	-323
Korea, South	0	-17	0	11	0	-16	-73
Latvia	0	—	—	0	0	0	0
Lithuania	0	—	—	0	—	4	4
Malaysia	1	-2	1	0	0	-4	-18
Mexico	-1	-68	-4	-21	0	-988	-380
Netherlands	0	-5	0	-2	0	-121	-206
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-3	0	0	0	11	45
Oman	0	-1	0	0	—	-5	9
Panama	0	—	-1	-1	0	-116	-119
Portugal	0	-3	—	0	—	17	17
Puerto Rico	0	0	0	-1	0	-10	-10
Russia	0	0	0	0	—	336	384
Spain	0	-19	4	0	0	6	-16
Sweden	0	0	—	0	0	6	6
Trinidad and Tobago	0	0	0	0	0	26	33
United Kingdom	0	-2	0	0	0	1	-76
Vietnam	0	-2	0	0	0	-3	-1
Virgin Islands, U.S.	—	—	0	0	0	-40	-40
Yemen	—	—	—	0	—	0	2
Other	1	-134	-3	-20	-1	-878	-928
Total	1	-576	19	-70	-1	-3,062	3,732
Persian Gulf²	0	-3	0	9	0	21	1,729

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	11,479	131,743	867,366	22,362	51,006	1,083,956
Refinery	9,838	12,891	46,367	2,621	23,221	94,938
Tank Farms and Pipelines (Includes Cushing, OK)	1,641	118,852	158,168	19,741	22,792	321,194
Cushing, Oklahoma	—	48,701	—	—	—	48,701
Leases	—	—	—	—	—	—
Strategic Petroleum Reserve ¹	—	—	662,831	—	—	662,831
Alaskan In Transit	—	—	—	—	4,993	4,993
Total Stocks, All Oils (excluding Crude Oil)²	160,684	176,126	359,955	21,086	93,144	810,996
Refinery	16,662	50,806	125,118	10,834	50,511	253,931
Bulk Terminal	115,575	89,592	178,395	6,075	37,390	427,028
Pipeline	28,190	34,268	52,935	4,025	5,011	124,429
Natural Gas Processing Plant	257	1,460	3,507	152	232	5,608
Natural Gas Liquids	8,145	49,376	120,379	3,618	3,306	184,824
Refinery	551	4,336	5,571	427	1,285	12,170
Bulk Terminal	6,600	28,234	95,698	977	1,778	133,287
Pipeline	737	15,346	15,603	2,062	11	33,759
Natural Gas Processing Plant	257	1,460	3,507	152	232	5,608
Ethane	454	5,033	49,664	468	—	55,619
Refinery	—	—	184	—	—	184
Bulk Terminal	266	2,219	42,416	—	—	44,901
Pipeline	188	2,625	5,485	465	—	8,763
Natural Gas Processing Plant	—	189	1,579	3	—	1,771
Propane	5,845	20,019	33,538	1,484	1,461	62,347
Refinery	127	1,704	1,212	58	119	3,220
Bulk Terminal	5,067	14,180	26,021	536	1,301	47,105
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	129	610	1,061	61	30	1,891
Normal Butane	1,350	11,815	22,725	1,036	1,395	38,321
Refinery	275	1,846	2,559	258	774	5,712
Bulk Terminal	1,026	8,490	17,871	431	472	28,290
Pipeline	6	1,232	1,887	315	—	3,440
Natural Gas Processing Plant	43	247	408	32	149	879
Isobutane	176	2,160	5,366	275	416	8,393
Refinery	149	485	1,318	101	389	2,442
Bulk Terminal	—	898	2,816	—	—	3,714
Pipeline	11	554	978	164	—	1,707
Natural Gas Processing Plant	16	223	254	10	27	530
Natural Gasoline	320	10,349	9,086	355	34	20,144
Refinery	—	301	298	10	3	612
Bulk Terminal	241	2,447	6,574	10	5	9,277
Pipeline	10	7,410	2,009	289	—	9,718
Natural Gas Processing Plant	69	191	205	46	26	537
Refinery Olefins	332	753	4,952	15	28	6,080
Refinery	332	735	2,401	15	28	3,511
Bulk Terminal	—	18	2,551	—	—	2,569
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Ethylene	—	—	0	—	—	0
Refinery	—	—	0	—	—	0
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Propylene	154	638	4,023	0	27	4,842
Refinery	154	620	1,472	0	27	2,273
Bulk Terminal	—	18	2,551	—	—	2,569
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Butylene	148	115	929	15	1	1,208
Refinery	148	115	929	15	1	1,208
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Isobutylene	30	0	0	0	0	30
Refinery	30	0	0	0	0	30
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Other Hydrocarbons	—	47	—	—	—	47
Refinery	—	47	—	—	—	47
Oxygenates (excluding Fuel Ethanol)	—	7	1,439	—	—	1,446
Refinery	—	—	—	—	—	—
Bulk Terminal	—	7	1,439	—	—	1,446
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,320	—	—	1,320
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,320	—	—	1,320
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	7	119	—	—	126
Refinery	—	—	—	—	—	—
Bulk Terminal	—	7	119	—	—	126
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	8,810	10,324	5,382	334	3,728	28,579
Refinery	145	128	392	108	190	963
Bulk Terminal	8,665	10,196	4,990	223	3,538	27,613
Pipeline	—	—	—	3	—	3
Fuel Ethanol²	7,014	9,080	4,078	324	2,552	23,048
Refinery	141	87	203	102	31	564
Bulk Terminal	6,873	8,993	3,875	219	2,521	22,481
Pipeline	—	—	—	3	—	3
Renewable Diesel Fuel	1,796	1,244	1,302	10	1,150	5,503
Refinery	4	41	189	6	159	399
Bulk Terminal	1,792	1,203	1,113	4	991	5,104
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	2	—	26	28
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	2	—	26	28
Pipeline	—	—	—	—	—	—
Unfinished Oils	5,213	13,468	44,920	2,751	19,908	86,260
Naphthas and Lighter	1,484	3,989	10,140	563	3,388	19,564
Refinery	1,218	3,945	9,637	563	3,140	18,503
Bulk Terminal	266	44	503	—	248	1,061
Kerosene and Light Gas Oils	786	2,671	7,773	550	4,620	16,400
Refinery	571	2,671	7,324	550	4,349	15,465
Bulk Terminal	215	—	449	—	271	935
Heavy Gas Oils	2,064	4,549	22,411	1,160	9,605	39,789
Refinery	1,872	4,539	18,820	1,160	9,071	35,462
Bulk Terminal	192	10	3,591	—	534	4,327
Residuum	879	2,259	4,596	478	2,295	10,507
Refinery	879	1,975	4,553	478	2,267	10,152
Bulk Terminal	—	284	43	—	28	355
Motor Gasoline Blending Components²	55,105	45,674	74,336	5,786	31,207	212,108
Refinery	5,301	13,490	28,767	3,150	14,635	65,343
Bulk Terminal	39,226	23,178	28,824	1,794	13,700	106,722
Pipeline	10,578	9,006	16,745	842	2,872	40,043
Reformulated - RBOB	19,863	6,163	11,132	—	16,297	53,455
Refinery	1,954	1,171	1,664	—	5,508	10,297
Bulk Terminal	13,581	3,467	6,080	—	9,176	32,304
Pipeline	4,328	1,525	3,388	—	1,613	10,854
Conventional	35,242	39,511	63,204	5,786	14,910	158,653
Refinery	3,347	12,319	27,103	3,150	9,127	55,046
Bulk Terminal	25,645	19,711	22,744	1,794	4,524	74,418
Pipeline	6,250	7,481	13,357	842	1,259	29,189
CBOB	23,734	33,080	33,996	4,228	7,367	102,405
Refinery	792	6,587	11,729	1,594	2,297	22,999
Bulk Terminal	16,692	19,179	8,942	1,792	3,820	50,425
Pipeline	6,250	7,314	13,325	842	1,250	28,981
GTAB	455	—	—	—	—	455
Refinery	—	—	—	—	—	—
Bulk Terminal	455	—	—	—	—	455
Pipeline	—	—	—	—	—	—
Other	11,053	6,431	29,208	1,558	7,543	55,793
Refinery	2,555	5,732	15,374	1,556	6,830	32,047
Bulk Terminal	8,498	532	13,802	2	704	23,538
Pipeline	—	167	32	—	9	208
Aviation Gasoline Blending Components	—	—	15	—	—	15
Refinery	—	—	15	—	—	15
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	5,505	6,536	8,882	1,814	1,904	24,641
Refinery	49	1,475	3,647	786	575	6,532
Bulk Terminal	2,020	2,867	3,489	700	1,189	10,265
Pipeline	3,436	2,194	1,746	328	140	7,844
Reformulated	24	—	—	—	16	40
Refinery	—	—	—	—	16	16
Bulk Terminal	24	—	—	—	—	24
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	24	—	—	—	16	40
Refinery	—	—	—	—	16	16
Bulk Terminal	24	—	—	—	—	24
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	5,481	6,536	8,882	1,814	1,888	24,601
Refinery	49	1,475	3,647	786	559	6,516
Bulk Terminal	1,996	2,867	3,489	700	1,189	10,241
Pipeline	3,436	2,194	1,746	328	140	7,844
Conventional (Blended with Fuel Ethanol)	30	185	—	80	—	295
Refinery	—	—	—	74	—	74
Bulk Terminal	30	185	—	6	—	221
Pipeline	—	—	—	—	—	—
Ed55 and Lower	30	185	—	80	—	295
Refinery	—	—	—	74	—	74
Bulk Terminal	30	185	—	6	—	221
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	5,451	6,351	8,882	1,734	1,888	24,306
Refinery	49	1,475	3,647	712	559	6,442
Bulk Terminal	1,966	2,682	3,489	694	1,189	10,020
Pipeline	3,436	2,194	1,746	328	140	7,844
Finished Aviation Gasoline	175	158	469	9	230	1,041
Refinery	—	85	382	9	144	620
Bulk Terminal	175	73	87	—	86	421
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	9,509	6,900	13,844	722	10,243	41,218
Refinery	718	2,004	6,165	292	3,742	12,921
Bulk Terminal	4,455	3,132	3,247	308	5,735	16,877
Pipeline	4,336	1,764	4,432	122	766	11,420
Kerosene	1,798	120	176	2	42	2,138
Refinery	97	96	156	2	3	354
Bulk Terminal	1,464	24	2	—	39	1,529
Pipeline	237	—	18	—	—	255
Distillate Fuel Oil²	52,677	28,795	45,822	4,208	14,072	145,574
Refinery	2,362	6,920	16,135	1,983	5,638	33,038
Bulk Terminal	41,449	15,917	15,301	1,557	7,222	81,446
Pipeline	8,866	5,958	14,386	668	1,212	31,090
15 ppm sulfur and Under	43,858	28,132	38,803	3,970	13,128	127,891
Refinery	1,955	6,466	13,370	1,766	4,877	28,434
Bulk Terminal	34,219	15,822	12,076	1,538	7,135	70,790
Pipeline	7,684	5,844	13,357	666	1,116	28,667
Greater than 15 ppm to 500 ppm sulfur	4,592	324	2,241	172	240	7,569
Refinery	147	193	1,179	151	239	1,909
Bulk Terminal	4,361	18	895	19	1	5,294
Pipeline	84	113	167	2	—	366
Greater than 500 ppm sulfur	4,227	339	4,778	66	704	10,114
Refinery	260	261	1,586	66	522	2,695
Bulk Terminal	2,869	77	2,330	—	86	5,362
Pipeline	1,098	1	862	—	96	2,057
Residual Fuel Oil⁵	7,304	1,233	16,357	215	4,250	29,359
Refinery	654	1,146	3,627	215	2,364	8,006
Bulk Terminal	6,650	87	12,730	—	1,880	21,347
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	1,190	109	650	32	167	2,148
Refinery	114	108	184	32	—	438
Bulk Terminal	1,076	1	466	—	167	1,710
0.31% to 1.00% Sulfur	1,426	184	4,467	4	520	6,601
Refinery	92	175	302	4	413	986
Bulk Terminal	1,334	9	4,165	—	107	5,615
Greater than 1.00% Percent Sulfur	4,688	940	11,240	179	3,557	20,604
Refinery	448	863	3,141	179	1,951	6,582
Bulk Terminal	4,240	77	8,099	—	1,606	14,022
Petrochemical Feedstocks	98	488	2,313	—	2	2,901
Refinery	98	488	2,313	—	2	2,901
Naphtha for Petrochemical Feedstock Use	98	352	1,397	—	2	1,849
Other Oils for Petrochemical Feedstock Use	—	136	916	—	—	1,052
Special Naphthas	47	101	999	—	45	1,192
Refinery	26	57	993	—	45	1,121
Bulk Terminal	21	44	6	—	—	71
Lubricants	1,062	883	9,061	—	1,015	12,021
Refinery	590	470	5,959	—	720	7,739
Bulk Terminal	472	413	3,102	—	295	4,282
Waxes	527	63	267	—	—	857
Refinery	527	63	267	—	—	857
Petroleum Coke	—	1,517	5,563	83	1,356	8,519
Refinery	—	1,517	5,563	83	1,356	8,519
Asphalt and Road Oil	4,348	9,558	4,401	1,513	1,686	21,506
Refinery	643	4,494	2,058	997	839	9,031
Bulk Terminal	3,705	5,064	2,343	516	847	12,475

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2017
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	29	125	378	16	122	670
Refinery	29	125	373	16	118	661
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	5	—	4	9
Total Stocks, All Oils	172,163	307,869	1,227,321	43,448	144,150	1,894,952

— = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

³ Includes stocks held by merchant producers.

⁴ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁵ Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2017
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	24	2,045	2,069	15,535	28,992	44,527	1,561
Connecticut	—	—	—	1,037	24	1,061	224
Delaware	—	—	—	699	386	1,085	87
District of Columbia	—	—	—	—	—	—	—
Florida	—	732	732	—	5,088	5,088	—
Georgia	—	268	268	—	2,480	2,480	—
Maine	—	—	—	354	290	644	224
Maryland	—	—	—	1,330	190	1,520	28
Massachusetts	7	—	7	1,403	143	1,546	15
New Hampshire	—	—	—	—	—	—	20
New Jersey	—	376	376	5,982	9,766	15,748	17
New York	17	—	17	994	2,049	3,043	423
North Carolina	—	200	200	—	2,232	2,232	366
Pennsylvania	—	25	25	1,204	3,863	5,067	78
Rhode Island	—	—	—	963	—	963	—
South Carolina	—	228	228	—	1,225	1,225	32
Vermont	—	30	30	—	—	—	3
Virginia	—	150	150	1,569	1,099	2,668	44
West Virginia	—	36	36	—	157	157	—
PAD District 2	—	4,342	4,342	4,638	32,030	36,668	120
Illinois	—	410	410	2,496	4,736	7,232	98
Indiana	—	352	352	780	3,577	4,357	—
Iowa	—	183	183	—	1,914	1,914	—
Kansas	—	325	325	—	3,590	3,590	13
Kentucky	—	378	378	412	1,150	1,562	8
Michigan	—	266	266	57	2,960	3,017	1
Minnesota	—	363	363	30	2,384	2,414	—
Missouri	—	202	202	294	556	850	—
Nebraska	—	92	92	—	460	460	—
North Dakota	—	48	48	—	812	812	—
Ohio	—	970	970	47	3,911	3,958	—
Oklahoma	—	348	348	26	2,975	3,001	—
South Dakota	—	77	77	—	354	354	—
Tennessee	—	195	195	—	1,719	1,719	—
Wisconsin	—	133	133	496	932	1,428	—
PAD District 3	—	7,136	7,136	7,744	49,847	57,591	158
Alabama	—	205	205	—	1,079	1,079	5
Arkansas	—	175	175	—	786	786	—
Louisiana	—	1,662	1,662	335	11,965	12,300	113
Mississippi	—	1,213	1,213	82	2,084	2,166	—
New Mexico	—	108	108	—	575	575	—
Texas	—	3,773	3,773	7,327	33,358	40,685	40
PAD District 4	—	1,486	1,486	—	4,944	4,944	2
Colorado	—	271	271	—	1,542	1,542	—
Idaho	—	276	276	—	252	252	—
Montana	—	357	357	—	1,062	1,062	—
Utah	—	127	127	—	1,412	1,412	2
Wyoming	—	455	455	—	676	676	—
PAD District 5	16	1,748	1,764	14,684	13,651	28,335	42
Alaska	—	793	793	—	—	—	39
Arizona	—	87	87	1,007	402	1,409	—
California	16	270	286	13,531	6,948	20,479	3
Hawaii	—	1	1	—	1,028	1,028	—
Nevada	—	146	146	8	290	298	—
Oregon	—	68	68	—	1,155	1,155	—
Washington	—	383	383	138	3,828	3,966	—
U.S. Total	40	16,757	16,797	42,601	129,464	172,065	1,883

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2017
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	36,174	4,508	3,129	43,811	7,304	5,323
Connecticut	1,436	2,019	123	3,578	21	—
Delaware	354	23	76	453	413	20
District of Columbia	—	—	—	—	—	—
Florida	2,335	113	—	2,448	1,377	224
Georgia	1,428	—	—	1,428	296	10
Maine	1,045	2	593	1,640	62	—
Maryland	3,212	319	—	3,531	381	3
Massachusetts	766	646	124	1,536	207	—
New Hampshire	259	—	247	506	4	166
New Jersey	11,094	201	594	11,889	2,830	91
New York	5,847	204	360	6,411	654	1,428
North Carolina	1,340	—	19	1,359	—	222
Pennsylvania	4,036	240	649	4,925	611	2,356
Rhode Island	367	524	—	891	—	—
South Carolina	854	—	—	854	300	560
Vermont	30	—	7	37	—	—
Virginia	1,647	207	337	2,191	148	169
West Virginia	124	10	—	134	—	74
PAD District 2	22,288	211	338	22,837	1,233	16,494
Illinois	3,616	—	—	3,616	304	894
Indiana	2,569	—	81	2,650	134	240
Iowa	1,537	—	—	1,537	3	490
Kansas	2,222	—	—	2,222	30	9,213
Kentucky	871	—	2	873	204	229
Michigan	1,512	7	—	1,519	87	3,976
Minnesota	1,575	—	18	1,593	126	272
Missouri	595	11	5	611	—	153
Nebraska	886	—	4	890	—	366
North Dakota	842	1	—	843	44	55
Ohio	2,096	—	48	2,144	142	467
Oklahoma	1,545	89	116	1,750	28	75
South Dakota	486	—	—	486	—	14
Tennessee	983	—	—	983	78	3
Wisconsin	953	103	64	1,120	53	47
PAD District 3	25,446	2,074	3,916	31,436	16,357	28,294
Alabama	1,229	5	35	1,269	346	25
Arkansas	755	—	43	798	—	44
Louisiana	4,870	951	1,058	6,879	7,162	1,734
Mississippi	1,246	398	211	1,855	32	2,167
New Mexico	387	—	—	387	33	5
Texas	16,959	720	2,569	20,248	8,784	24,319
PAD District 4	3,304	170	66	3,540	215	655
Colorado	760	—	—	760	4	21
Idaho	279	—	—	279	—	—
Montana	968	60	—	1,028	79	27
Utah	593	58	66	717	44	554
Wyoming	704	52	—	756	88	53
PAD District 5	12,012	240	608	12,860	4,244	1,450
Alaska	1,137	—	71	1,208	273	4
Arizona	796	—	—	796	—	941
California	6,345	239	263	6,847	2,238	348
Hawaii	222	1	269	492	984	47
Nevada	524	—	5	529	—	—
Oregon	790	—	—	790	7	—
Washington	2,198	—	—	2,198	742	110
U.S. Total	99,224	7,203	8,057	114,484	29,353	52,216

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	119	152	0	2,687	54,142	6,720	3,289	2,954	26,649
Petroleum Products	14,735	273	0	17,719	37,110	7,300	4,886	110,258	18,151
Natural Gas Liquids	5,436	220	0	3,472	23,184	3,814	810	2,549	8,839
Ethane	5,051	0	—	45	11,632	489	—	0	504
Propane	125	208	0	2,500	8,385	1,869	200	2,374	1,363
Normal Butane	154	9	0	756	1,453	780	480	170	568
Isobutane	96	3	0	171	682	282	130	5	585
Natural Gasoline	10	0	—	0	1,032	394	—	0	5,819
Refinery Olefins	0	0	—	168	446	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	168	446	—	—	0	0
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	0	—	—	699	—	—	—	404
Motor Gasoline Blending Components	6,279	0	0	1,616	1,820	660	0	55,177	4,348
Reformulated - RBOB	0	0	0	0	246	—	0	8,460	1,677
Conventional	6,279	0	0	1,616	1,574	660	0	46,717	2,671
CBOB	6,279	0	0	1,555	1,207	660	0	46,439	2,581
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	61	367	—	—	278	90
Renewable Fuels	0	0	0	9,811	8,584	625	3,879	376	0
Fuel Ethanol	0	0	0	9,497	8,337	625	3,670	236	0
Renewable Diesel Fuel	0	0	0	314	247	—	209	140	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	85	0	0	356	294	771	0	6,328	504
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	85	0	0	356	294	771	0	6,328	504
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	85	0	0	356	294	771	0	6,328	504
Finished Aviation Gasoline	0	0	—	0	0	—	—	1,229	15
Kerosene-Type Jet Fuel	301	0	0	114	36	744	0	14,485	1,824
Kerosene	—	0	—	0	0	—	—	128	—
Distillate Fuel Oil	2,596	0	0	888	737	663	0	29,018	1,839
15 ppm sulfur and under	2,596	0	0	888	697	663	0	26,860	1,729
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	237	110
Greater than 500 ppm sulfur	0	0	—	0	40	—	—	1,921	0
Residual Fuel Oil	0	0	—	0	822	—	—	99	0
Petrochemical Feedstocks	38	0	—	0	112	—	—	0	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	59	—	—	—	0
Other Oils for Petrochemical Feedstock Use	38	0	—	0	53	—	—	0	0
Special Naphthas	0	0	—	—	0	—	—	—	44
Lubricants	0	0	0	0	0	—	0	324	228
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	53	0	684	236	0	31	150	0
Asphalt and Road Oil	0	0	0	610	140	23	165	395	94
Miscellaneous Products	0	0	—	—	0	—	—	—	12
Total	14,854	425	0	20,406	91,252	14,020	8,175	113,212	44,800

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2017
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	380	0	21,723	1,290	0	0	0	0
Petroleum Products	0	5,519	0	8,980	7,444	2,471	0	115	0
Natural Gas Liquids	0	268	0	7,652	7,361	407	0	0	0
Ethane	0	—	0	1,556	2,682	—	0	0	0
Propane	0	0	0	3,230	2,414	90	0	0	0
Normal Butane	0	210	0	1,335	847	260	0	0	0
Isobutane	0	58	0	589	496	57	0	0	0
Natural Gasoline	0	—	0	942	922	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	—	0	0	—	—	0	—
Motor Gasoline Blending Components	0	3,901	0	160	0	995	0	0	0
Reformulated - RBOB	—	2,630	0	0	0	0	0	0	—
Conventional	0	1,271	0	160	0	995	0	0	0
CBOB	0	1,271	0	160	0	995	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	262	0	0	0	83	0	0	0
Fuel Ethanol	0	214	0	0	0	83	0	0	0
Renewable Diesel Fuel	—	48	0	0	0	0	0	0	—
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	332	0	356	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	332	0	356	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	332	0	356	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	287	0	12	0	27	0	0	0
Kerosene	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil	0	715	0	493	0	414	0	0	0
15 ppm sulfur and under	0	715	0	493	0	414	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	0	0	0	0	0	0	90	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	26	0	202	25	50	0	25	0
Asphalt and Road Oil	0	61	0	129	58	138	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,899	0	30,703	8,734	2,471	0	115	0

— = No Data Reported.

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2017
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil ¹	92	74	169	51,890	6,720	194	26,649	0	-
Petroleum Products ²	14,336	0	3,097	24,425	6,652	87,686	16,491	0	4,903
Natural Gas Liquids	5,124	0	1,277	22,119	3,814	2,113	8,429	0	-
Ethane	5,051	0	45	11,632	489	0	504	0	-
Propane	45	0	1,232	7,378	1,869	2,113	1,171	0	-
Normal Butane	5	0	0	1,411	780	0	404	0	-
Isobutane	13	0	0	666	282	0	531	0	-
Natural Gasoline	10	0	0	1,032	394	0	5,819	0	-
Motor Gasoline Blending Components	6,279	0	937	1,453	660	44,956	4,297	0	3,901
Reformulated - RBOB	0	0	0	246	-	8,137	1,677	-	2,630
Conventional	6,279	0	937	1,207	660	36,819	2,620	0	1,271
CBOB	6,279	0	937	1,207	660	36,819	2,581	0	1,271
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	39	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	85	0	348	120	771	3,520	369	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	85	0	348	120	771	3,520	369	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	85	0	348	120	771	3,520	369	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	252	0	114	36	744	12,456	1,824	0	287
Kerosene	-	0	0	0	-	128	-	-	-
Distillate Fuel Oil	2,596	0	421	697	663	24,513	1,572	0	715
15 ppm sulfur and under	2,596	0	421	697	663	22,355	1,462	0	715
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	237	110	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,921	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,428	74	3,266	76,315	13,372	87,880	43,140	0	4,903

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2017
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil¹	0	21,292	329	—	0	0
Petroleum Products²	0	8,649	7,361	1,792	0	0
Natural Gas Liquids	0	7,652	7,361	—	0	0
Ethane	0	1,556	2,682	—	0	0
Propane	0	3,230	2,414	—	0	0
Normal Butane	0	1,335	847	—	0	0
Isobutane	0	589	496	—	0	0
Natural Gasoline	0	942	922	—	0	0
Motor Gasoline Blending Components	0	160	0	995	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	160	0	995	0	0
CBOB	0	160	0	995	0	0
GTAB	—	—	—	—	—	—
Other	—	0	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	332	0	356	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	332	0	356	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	332	0	356	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	27	0	0
Kerosene	0	—	0	—	0	—
Distillate Fuel Oil	0	493	0	414	0	0
15 ppm sulfur and under	0	493	0	414	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	—	0	—
Greater than 500 ppm sulfur	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	29,941	7,690	1,792	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil¹	27	78	0	354	1,672	0
Petroleum Products²	87	0	0	1,154	3,116	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	0	0	—	—	699	—
Motor Gasoline Blending Components	0	0	—	679	367	—
Reformulated - RBOB	—	0	—	0	0	—
Conventional	0	0	—	679	367	—
CBOB	0	0	—	618	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	61	367	—
Renewable Fuels	0	0	—	0	902	—
Fuel Ethanol	0	0	—	0	883	—
Renewable Diesel Fuel	0	0	—	0	19	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	8	174	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	8	174	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	8	174	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	49	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	467	40	—
15 ppm sulfur and under	0	0	—	467	0	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	0	0	—	—	40	—
Residual Fuel Oil	0	0	—	0	822	—
Less than 0.31 percent sulfur	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	0	0	—	—	64	—
Greater than 1.00 percent sulfur	0	0	—	0	758	—
Petrochemical Feedstocks	38	0	—	0	112	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	59	—
Other Oils for Petrochemical Feedstock Use	38	0	—	0	53	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	0	0	0	0
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	0	0	—
Miscellaneous Products	0	0	—	—	0	—
Total	114	78	0	1,508	4,788	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2017
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil¹	2,760	—	2,760	—	0	303	0	0	0
Petroleum Products²	21,869	641	1,121	20,107	1,230	0	0	0	90
Natural Gas Liquids	56	—	—	56	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	56	—	—	56	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	—	—	404	—	—	0	0
Motor Gasoline Blending Components	10,221	323	278	9,620	51	—	0	0	0
Reformulated - RBOB	323	323	—	—	—	—	0	—	0
Conventional	9,898	—	278	9,620	51	—	0	0	0
CBOB	9,620	—	—	9,620	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	278	—	278	—	51	—	0	0	0
Renewable Fuels	376	—	—	376	0	—	0	0	0
Fuel Ethanol	236	—	—	236	0	—	0	0	0
Renewable Diesel Fuel	140	—	—	140	0	—	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	2,808	—	—	2,808	135	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,808	—	—	2,808	135	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	2,808	—	—	2,808	135	—	0	0	0
Finished Aviation Gasoline	1,229	5	20	1,204	15	—	0	0	0
Kerosene-Type Jet Fuel	2,029	—	—	2,029	0	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	4,505	313	633	3,559	267	—	0	0	0
15 ppm sulfur and under	4,505	313	633	3,559	267	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	0	—	—	0	0
Residual Fuel Oil	99	—	—	99	0	—	0	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	99	—	—	99	0	—	0	0	0
Petrochemical Feedstocks	0	—	—	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	0	—	—	—	0	—	0	0	0
Special Naphthas	—	—	—	—	44	—	—	0	0
Lubricants	324	—	190	134	228	0	0	0	90
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	222	—	—	222	74	—	0	0	0
Miscellaneous Products	—	—	—	—	12	—	—	0	0
Total	24,629	641	3,881	20,107	1,230	303	0	0	90

— = No Data Reported.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, December 2017
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	4,328	1,160	0	6,578
Propane	160	416	0	0	2,536	2,014	0	400
Propylene	0	0	–	–	336	892	–	–
Normal Butane	298	18	0	0	1,512	84	0	960
Isobutane	166	6	0	0	342	32	0	260
Fuel Ethanol	0	0	0	0	18,994	14,908	1,250	7,340
Biodiesel	0	0	–	0	314	228	–	209
Marketable Petroleum Coke	0	53	0	0	684	236	0	31
Asphalt and Road Oil	0	0	0	0	610	140	23	165

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	154	0	862	1,922	0
Propane	410	384	0	0	0	0	0	180
Propylene	0	0	–	–	0	0	0	–
Normal Butane	340	328	0	420	0	0	0	520
Isobutane	10	108	0	116	0	0	0	114
Fuel Ethanol	0	0	0	428	0	0	0	166
Biodiesel	0	0	–	48	0	0	0	0
Marketable Petroleum Coke	150	0	0	26	0	202	25	50
Asphalt and Road Oil	173	20	0	61	0	129	58	138

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	–
Marketable Petroleum Coke	0	0	25	0
Asphalt and Road Oil	0	0	0	0

– = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, December 2017
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	92	27	0	119
3	74	78	0	152
4	0	—	0	0
5	—	0	0	0
From 2 to				
1	169	354	4,328	2,687
3	51,890	1,672	1,160	54,142
4	6,720	—	0	6,720
5	—	0	6,578	3,289
From 3 to				
1	194	2,760	0	2,954
2	26,649	0	0	26,649
4	0	—	0	0
5	—	303	154	380
From 4 to				
1	0	0	0	0
2	21,292	0	862	21,723
3	329	0	1,922	1,290
5	—	0	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, December 2017
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	5,641	271	5,370	48,491	66,839	-18,348	55,584	29,983	25,601
Petroleum Products	127,977	15,008	112,969	41,866	67,015	-25,149	44,941	133,928	-88,987
Natural Gas Liquids	6,021	5,656	365	21,927	31,280	-9,353	30,765	11,656	19,109
Ethane	45	5,051	-5,006	7,111	12,166	-5,055	14,314	504	13,810
Propane	4,874	333	4,541	4,718	12,954	-8,236	11,007	3,737	7,270
Normal Butane	926	163	763	2,057	3,469	-1,412	2,309	948	1,361
Isobutane	176	99	77	1,270	1,265	5	1,181	648	533
Natural Gasoline	0	10	-10	6,771	1,426	5,345	1,954	5,819	-3,865
Refinery Olefins	168	0	168	0	614	-614	446	0	446
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	168	0	168	0	614	-614	446	0	446
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	0	-	404	699	-295	699	404	295
Motor Gasoline Blending Components	56,793	6,279	50,514	10,787	4,096	6,691	1,820	63,426	-61,606
Reformulated - RBOB	8,460	0	8,460	1,677	246	1,431	246	12,767	-12,521
Conventional	48,333	6,279	42,054	9,110	3,850	5,260	1,574	50,659	-49,085
CBOB	47,994	6,279	41,715	9,020	3,422	5,598	1,207	50,291	-49,084
GTAB	0	0	-	-	-	-	-	-	-
Other	339	0	339	90	428	-338	367	368	-1
Renewable Fuels	10,187	0	10,187	0	22,899	-22,899	8,584	638	7,946
Fuel Ethanol	9,733	0	9,733	0	22,128	-22,128	8,337	450	7,887
Renewable Diesel Fuel	454	0	454	0	771	-771	247	188	60
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	6,684	85	6,599	921	1,421	-500	294	6,832	-6,538
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	6,684	85	6,599	921	1,421	-500	294	6,832	-6,538
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	6,684	85	6,599	921	1,421	-500	294	6,832	-6,538
Finished Aviation Gasoline	1,229	0	1,229	15	0	15	0	1,244	-1,244
Kerosene-Type Jet Fuel	14,599	301	14,298	2,137	894	1,243	36	16,596	-16,560
Kerosene	128	0	128	0	0	-	0	128	-128
Distillate Fuel Oil	29,906	2,596	27,310	4,928	2,288	2,640	737	31,572	-30,835
15 ppm sulfur and under	27,748	2,596	25,152	4,818	2,248	2,570	697	29,304	-28,607
Greater than 15 ppm to 500 ppm sulfur	237	0	237	110	0	110	0	347	-347
Greater than 500 ppm sulfur	1,921	0	1,921	0	40	-40	40	1,921	-1,881
Residual Fuel Oil	99	0	99	0	822	-822	822	99	723
Petrochemical Feedstocks	0	38	-38	38	112	-74	112	0	112
Naphtha for Petrochemical Feedstock Use	0	0	-	0	59	-59	59	0	59
Other Oils for Petrochemical Feedstock Use	0	38	-38	38	53	-15	53	0	53
Special Naphthas	0	0	-	44	0	44	0	44	-44
Lubricants	324	0	324	228	0	228	90	552	-462
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	833	53	781	202	951	-749	339	175	163
Asphalt and Road Oil	1,005	0	1,005	223	939	-716	198	551	-353
Miscellaneous Products	0	0	-	12	0	12	0	12	-12
Total	133,618	15,279	118,339	90,357	133,853	-43,496	100,525	163,911	-63,386

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, December 2017
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,720	23,013	-16,293	3,669	0	3,669
Petroleum Products	7,300	18,894	-11,594	12,876	115	12,761
Natural Gas Liquids	3,814	15,420	-11,606	1,485	0	1,485
Ethane	489	4,238	-3,749	0	0	—
Propane	1,869	5,734	-3,865	290	0	290
Normal Butane	780	2,442	-1,662	950	0	950
Isobutane	282	1,142	-860	245	0	245
Natural Gasoline	394	1,864	-1,470	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	660	1,155	-495	4,896	0	4,896
Reformulated - RBOB	—	—	—	2,630	0	2,630
Conventional	660	1,155	-495	2,266	0	2,266
CBOB	660	1,155	-495	2,266	0	2,266
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Renewable Fuels	625	83	542	4,224	0	4,224
Fuel Ethanol	625	83	542	3,967	0	3,967
Renewable Diesel Fuel	0	0	—	257	0	257
Other Renewable Fuels	—	—	—	0	0	—
Finished Motor Gasoline	771	688	83	356	0	356
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	771	688	83	356	0	356
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	771	688	83	356	0	356
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	744	39	705	314	0	314
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	663	907	-244	1,129	0	1,129
15 ppm sulfur and under	663	907	-244	1,129	0	1,129
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	90	-90
Waxes	—	—	—	0	0	—
Marketable Petroleum Coke	0	278	-278	108	25	83
Asphalt and Road Oil	23	324	-301	365	0	365
Miscellaneous Products	0	0	—	0	0	—
Total	14,020	41,907	-27,887	16,545	115	16,430

— = No Data Reported.

Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

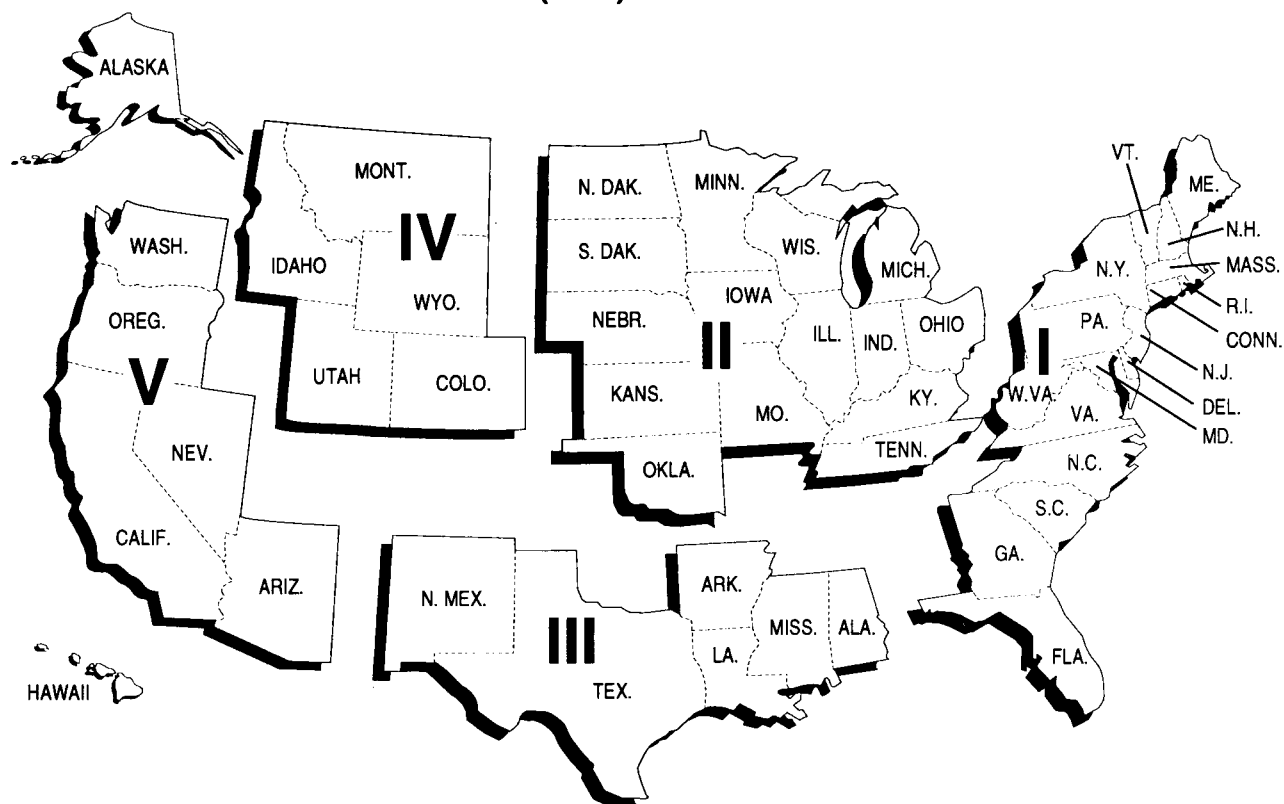
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

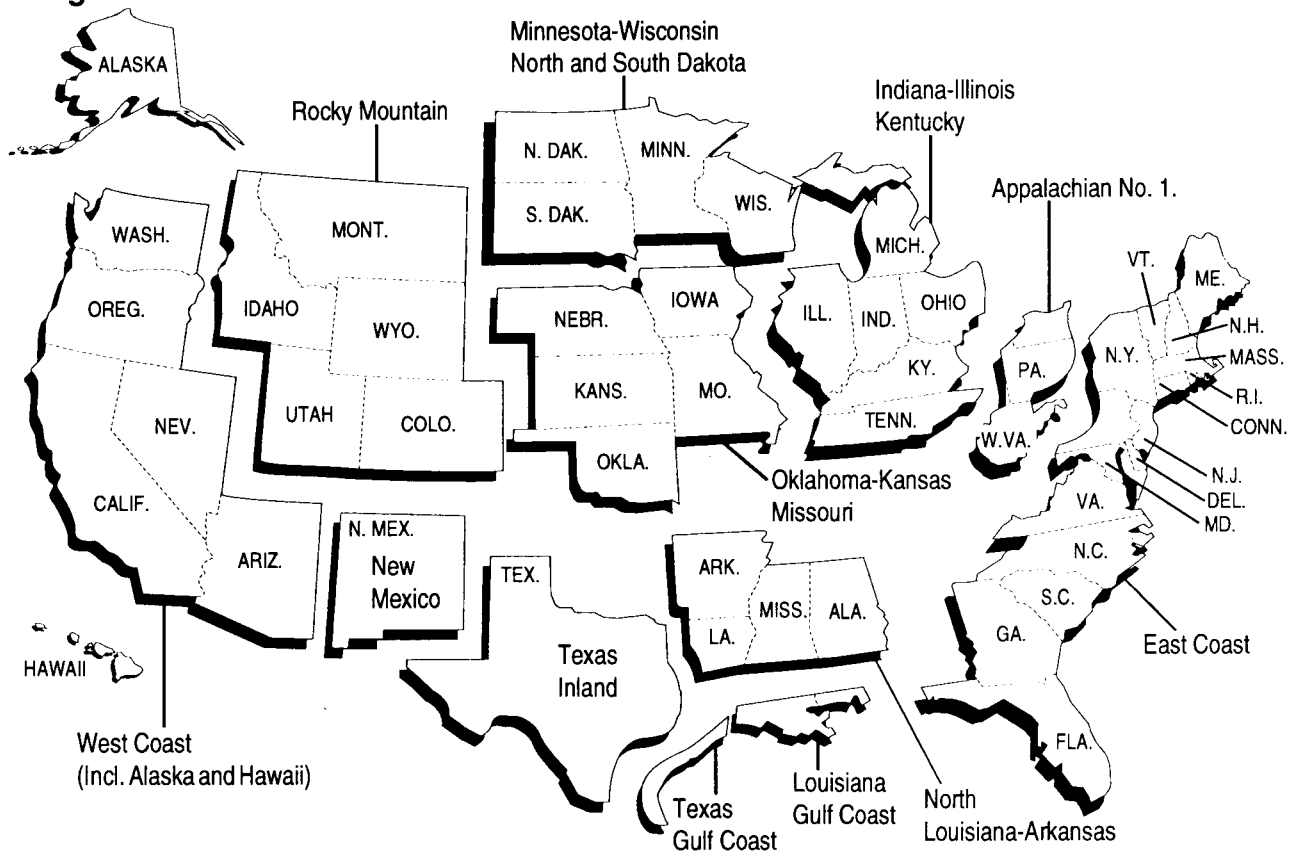
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

(2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbbl_m_cur.htm
http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm
http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbbl_m.htm

2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Oxygenate Report” include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

(3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

(6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, “Comparison of Independent Statistics on Petroleum Supply.” Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

(7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA’s petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and "other" motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each

PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
BP Products North America	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	58
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C_4H_{10}). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating**.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See **No. 1 Distillate**.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See **No. 1 Distillate**.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See **No. 2 Distillate**.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See **No. 4 Fuel**.

No. 4 Fuel Oil. See **No. 4 Fuel**.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See **Motor Gasoline Blending Components**.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969-present), Angola (2007-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-present), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See *Petrochemical Feedstocks*.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See *Motor Gasoline (Finished)*.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal

to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.